

441
CJM

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* * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Jun 03 New e-mail delivery for search results now available
NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11 Oct 24 BEILSTEIN adds new search fields
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
NEWS 14 Nov 25 More calculated properties added to REGISTRY
NEWS 15 Dec 04 CSA files on STN
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17 Dec 17 TOXCENTER enhanced with additional content
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20 Feb 13 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TEMA now available on STN
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 25 Feb 26 PCTFULL now contains images
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27 Mar 20 EVENTLINE will be removed from STN
NEWS 28 Mar 24 PATDPAFULL now available on STN
NEWS 29 Mar 24 Additional information for trade-named substances without structures available in REGISTRY
NEWS 30 Apr 11 Display formats in DGENE enhanced
NEWS 31 Apr 14 MEDLINE Reload
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 35 Apr 28 RDISCLOSURE now available on STN
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39 May 16 CHEMREACT will be removed from STN
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA

NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation

NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 12:51:47 ON 20 MAY 2003

FILE 'REGISTRY' ENTERED AT 12:51:59 ON 20 MAY 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 MAY 2003 HIGHEST RN 518003-32-2
DICTIONARY FILE UPDATES: 19 MAY 2003 HIGHEST RN 518003-32-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

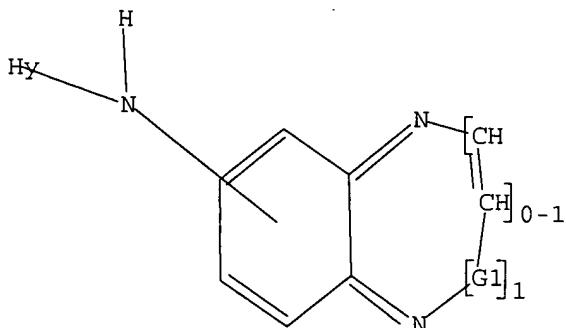
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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=> Uploading 10077150.9
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L1 STRUCTURE UPLOADED

=> d 11
 L1 HAS NO ANSWERS
 L1 STR



G1 O,S,N,NH

Structure attributes must be viewed using STN Express query preparation.

=> s 11
 SAMPLE SEARCH INITIATED 12:52:27 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 32516 TO ITERATE

3.1% PROCESSED 1000 ITERATIONS 1 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
 BATCH **INCOMPLETE**
 PROJECTED ITERATIONS: 639572 TO 661068
 PROJECTED ANSWERS: 308 TO 992

L2 1 SEA SSS SAM L1

=> s 11 sss full
 FULL SEARCH INITIATED 12:52:35 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 648466 TO ITERATE

61.7% PROCESSED 400000 ITERATIONS 174 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.11

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
 BATCH **INCOMPLETE**
 PROJECTED ITERATIONS: 648466 TO 648466
 PROJECTED ANSWERS: 232 TO 332

L3 174 SEA SSS FUL L1

=> file caplus
 COST IN U.S. DOLLARS SINCE FILE TOTAL
 FULL ESTIMATED COST ENTRY SESSION
 148.15 148.36

FILE 'CAPLUS' ENTERED AT 12:52:52 ON 20 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 20 May 2003 VOL 138 ISS 21
 FILE LAST UPDATED: 19 May 2003 (20030519/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13
 L4 41 L3

=> s 14 and CFR
 L5 0 L4 AND CFR

=> d 14 fbib hitstr abs total

L4 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:964355 CAPLUS
 DN 138:55951
 TI Preparation of 1-(2,1,3-benzothiadiazolyl)-3-pyridylpropyl-1,8-naphthyridine derivatives as phosphodiesterase (PDE) IV inhibitors
 IN Aotsuka, Tomoji; Kumazawa, Kentarou; Wagatsuma, Nagatoshi; Ishitani, Kouki; Nose, Takashi
 PA Grelan Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 69 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

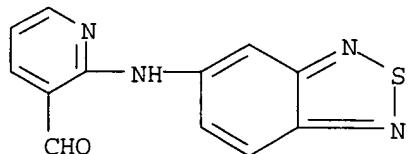
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002100859	A1	20021219	WO 2002-JP5804	20020611
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				JP 2001-176550 A	20010612
OS	MARPAT	138:55951			

IT 479073-54-6P 479073-55-7P 479073-56-8P
 479073-57-9P 479073-58-0P 479073-59-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; prepn. of (benzothiadiazolyl) (pyridylpropyl) naphthyridine
 e derivs. as PDE IV inhibitors)

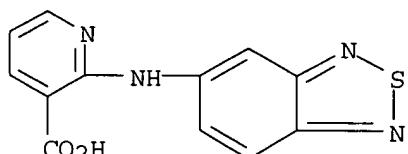
RN 479073-54-6 CAPLUS

CN 3-Pyridinecarboxaldehyde, 2-(2,1,3-benzothiadiazol-5-ylamino)- (9CI) (CA
 INDEX NAME)



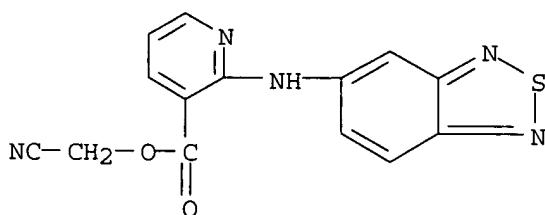
RN 479073-55-7 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-(2,1,3-benzothiadiazol-5-ylamino)- (9CI) (CA
 INDEX NAME)



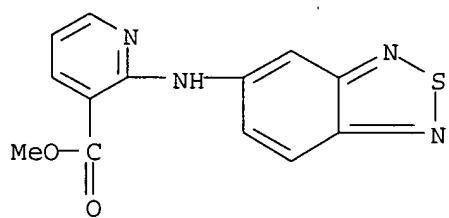
RN 479073-56-8 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-(2,1,3-benzothiadiazol-5-ylamino)-,
 cyanomethyl ester (9CI) (CA INDEX NAME)



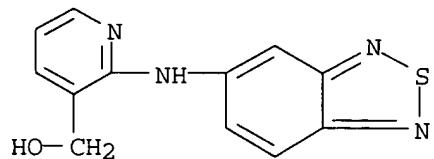
RN 479073-57-9 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-(2,1,3-benzothiadiazol-5-ylamino)-, methyl
 ester (9CI) (CA INDEX NAME)



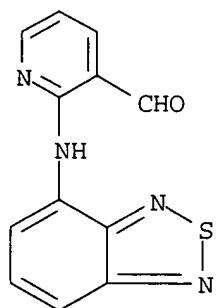
RN 479073-58-0 CAPLUS

CN 3-Pyridinemethanol, 2-(2,1,3-benzothiadiazol-5-ylamino)- (9CI) (CA INDEX NAME)

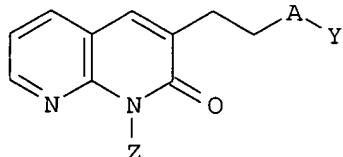


RN 479073-59-1 CAPLUS

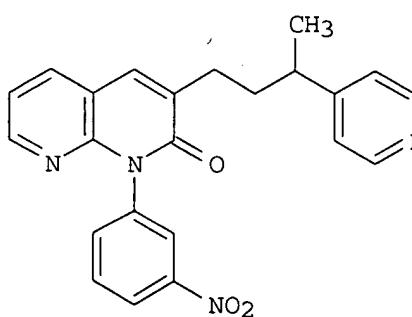
CN 3-Pyridinecarboxaldehyde, 2-(2,1,3-benzothiadiazol-4-ylamino)- (9CI) (CA INDEX NAME)



GI



I



II

AB The title compds. I [wherein A = CH₂, alkyl-CH₂, CO, HOCH₂, or alkyl-CO₂CH₂; Y = heteroaryl; Z = heteroaryl or (un)substituted Ph] and pharmaceutically acceptable salts thereof are prep'd as PDE IV inhibitors for the treatment of asthma. For example, 2-(3-nitrophenylamino)nicotinaldehyde (prepn given) was reacted with Et 5-methyl-5-(pyrid-4-yl)pentanoate (prepn given) in THF in the presence of LDA to afford the naphthyridine II (37%). II showed IC₅₀ of 0.070 .mu.M against PDE IV and ED₅₀ of 0.12 mg/kg against asthma in guinea pig.

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 2002:886244 CAPLUS

DN 137:371475

TI Anthrapyridones or their salts and their aqueous magenta inks with good ozone and light resistance for jet printers

IN Kato, Yoshinori; Fujii, Takafumi; Kitayama, Hirokazu; Matsumoto, Hiroyuki; Shirasaki, Yasuo

PA Nippon Kayaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002332419	A2	20021122	JP 2001-138113	20010509
				JP 2001-138113	20010509

OS MARPAT 137:371475

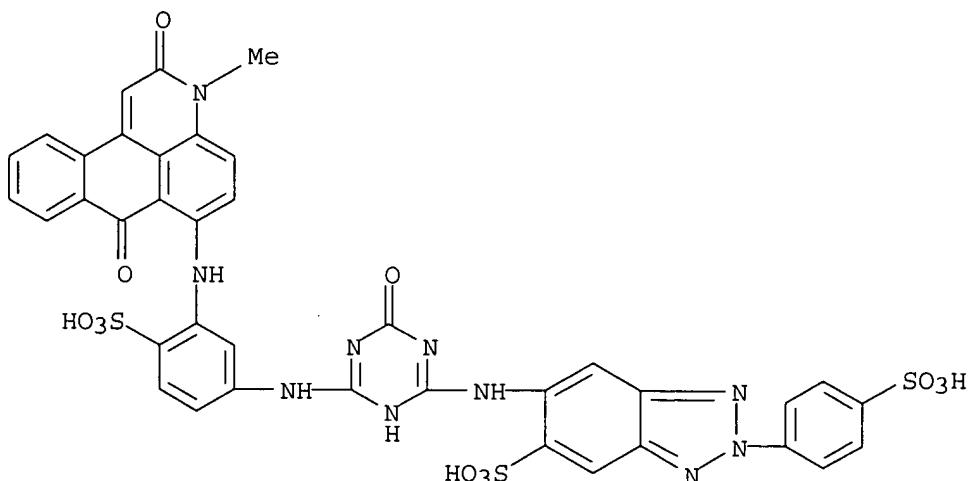
IT 475589-96-9P 475590-00-2P 475590-03-5P

475590-06-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(anthrapyridones for aq. magenta jet inks with good ozone and light resistance)

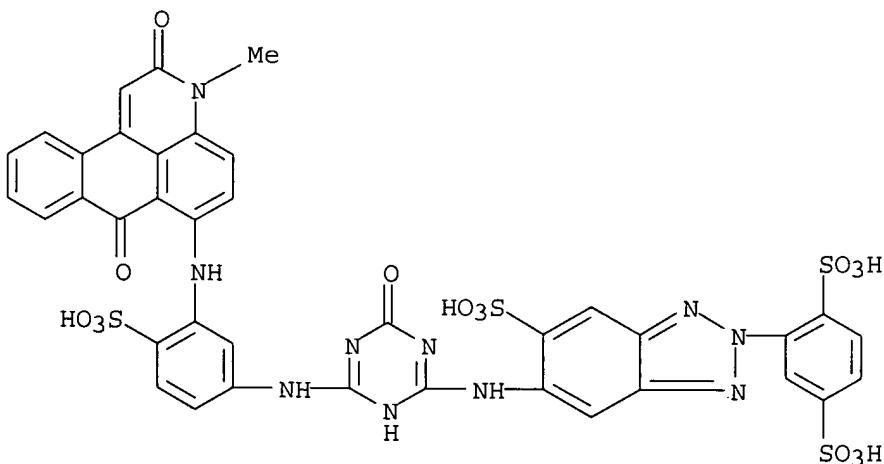
RN 475589-96-9 CAPLUS

CN 2H-Benzotriazole-5-sulfonic acid, 6-[[6-[[3-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-4-sulfophenyl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]-2-(4-sulfophenyl)- (9CI) (CA INDEX NAME)



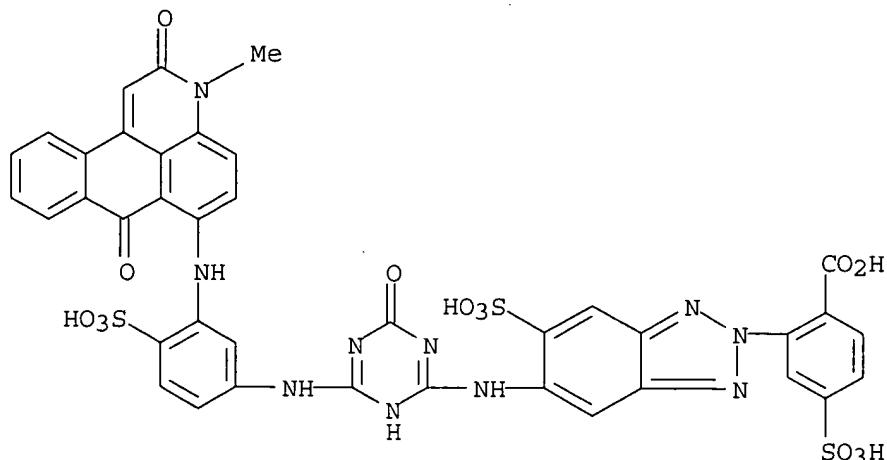
RN 475590-00-2 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[5-[[6-[[3-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-4-sulfophenyl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]-6-sulfo-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



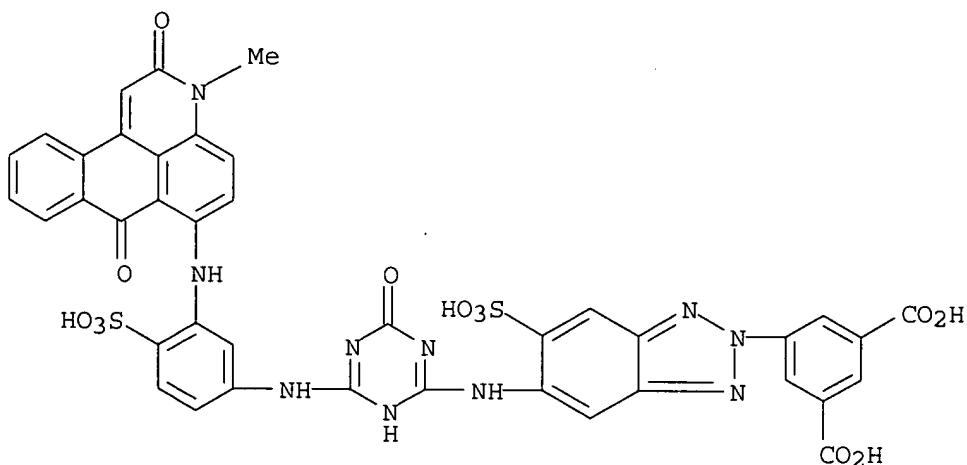
RN 475590-03-5 CAPLUS

CN Benzoic acid, 2-[5-[[6-[[3-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-4-sulfophenyl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]-6-sulfo-2H-benzotriazol-2-yl]-4-sulfo- (9CI) (CA INDEX NAME)

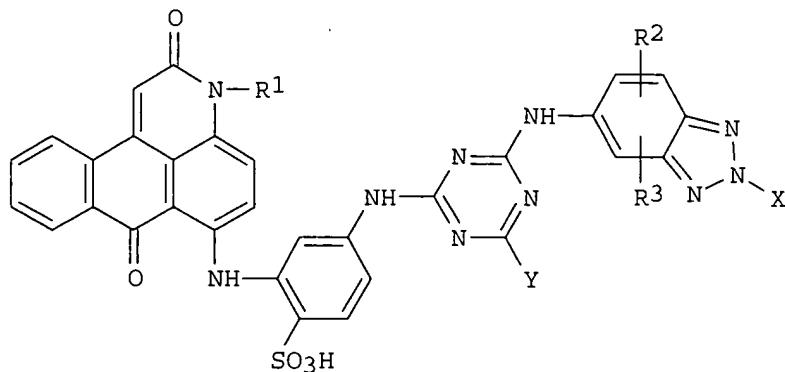


RN 475590-06-8 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[5-[[6-[[3-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-4-sulfophenyl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]-6-sulfo-2H-benzotriazol-2-yl]-(9CI) (CA INDEX NAME)



GI



AB The invention relates to anthrapyridones or their salts I (R1 = H, alkyl, cyclohexyl, alkylaminoalkyl, etc.; R2, R3 = H, alkyl, alkoxy, sulfonic, carboxyl; X = aryl; Y = Cl, OH, amino, alkoxy, anilino, etc.). Thus, an aq. jet ink contg. I (R1 = Me, R2 = SO₃H, X = 4-sulfophenyl, Y = OH) showed good color images.

L4 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:507825 CAPLUS

DN 137:325929

TI Synthesis and properties of new adducts of 2,2,6,6-tetramethylpiperidine and 2-hydroxyphenylbenzotriazole as polymer photostabilizers

AU Bojinov, Vladimir; Grabchev, Ivo

CS Organic Synthesis Department, University of Chemical Technology and Metallurgy, Sofia, 1756, Bulg.

SO Journal of Photochemistry and Photobiology, A: Chemistry (2002), 150(1-3), 223-231

CODEN: JPPCEJ; ISSN: 1010-6030

PB Elsevier Science B.V.

DT Journal

LA English

IT 153976-86-4P 153976-87-5P 451470-91-0P

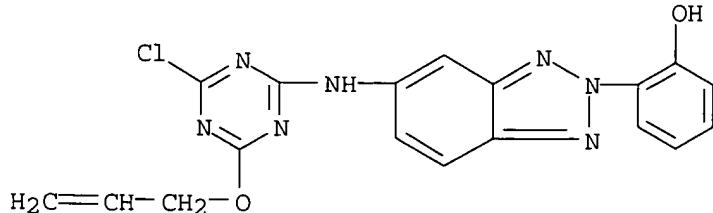
473576-31-7P 473576-32-8P 473576-33-9P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and properties of adducts of 2,2,6,6-tetramethylpiperidine and 2-hydroxyphenylbenzotriazole as polymerizable photostabilizers)

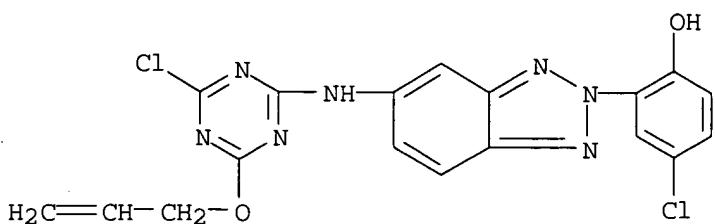
RN 153976-86-4 CAPLUS

CN Phenol, 2-[5-[(4-chloro-6-(2-propenyl)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



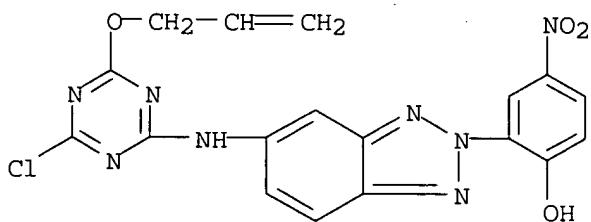
RN 153976-87-5 CAPLUS

CN Phenol, 4-chloro-2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



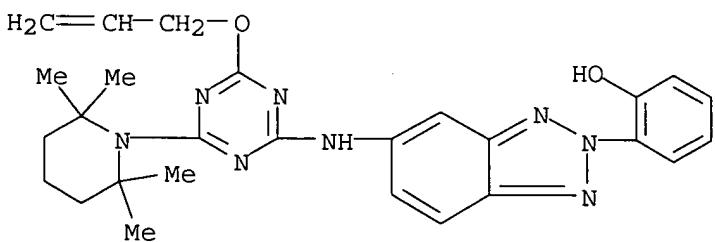
RN 451470-91-0 CAPLUS

CN Phenol, 2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]-4-nitro- (9CI) (CA INDEX NAME)



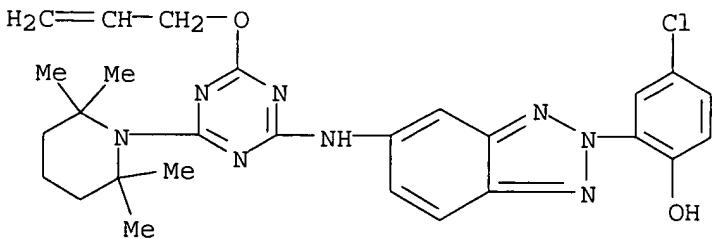
RN 473576-31-7 CAPLUS

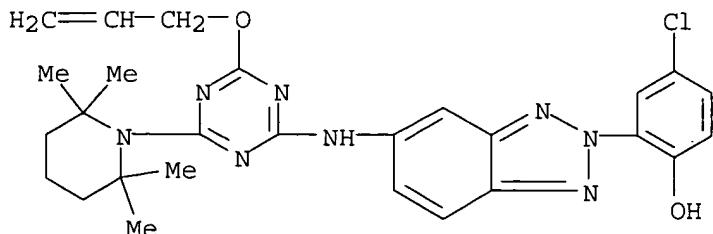
CN Phenol, 2-[5-[[4-(2-propenyloxy)-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



RN 473576-32-8 CAPLUS

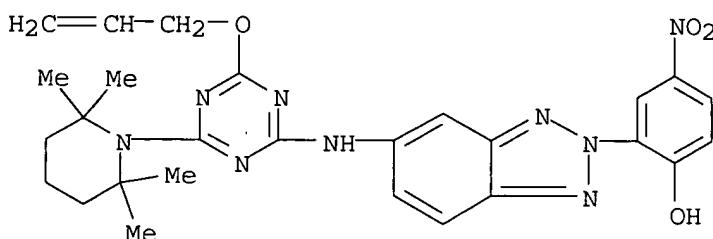
CN Phenol, 4-chloro-2-[5-[[4-(2-propenyloxy)-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)





RN 473576-33-9 CAPLUS

CN Phenol, 4-nitro-2-[5-[[4-(2-propenyl)oxy]-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



IT 230302-42-8P 230302-43-9P 451470-98-7P

473576-35-1P 473576-36-2P 473576-37-3P

473576-38-4P 473576-39-5P 473576-40-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and properties of adducts of 2,2,6,6-tetramethylpiperidine and 2-hydroxyphenylbenzotriazole as polymerizable photostabilizers)

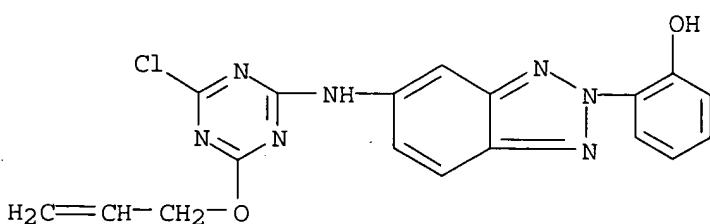
RN 230302-42-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-[5-[[4-chloro-6-(2-propenyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-
benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 153976-86-4

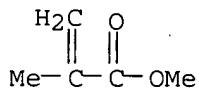
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CM 2

CRN 80-62-6

CMF C5 H8 O2



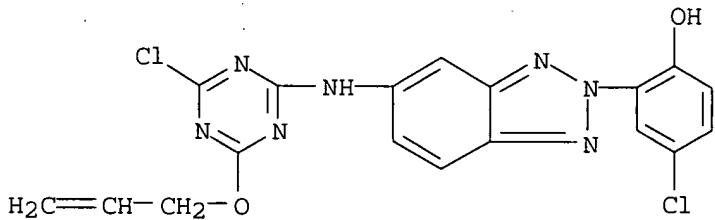
RN 230302-43-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
4-chloro-2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-
benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 153976-87-5

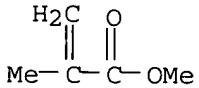
CMF C18 H13 Cl2 N7 O2



CM 2

CRN 80-62-6

CMF C5 H8 O2



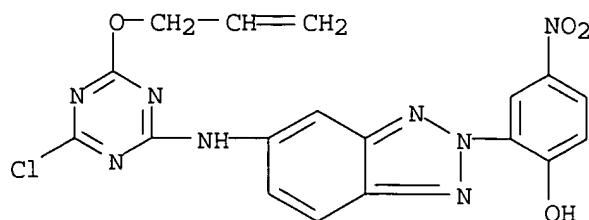
RN 451470-98-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-
benzotriazol-2-yl]-4-nitrophenol (9CI) (CA INDEX NAME)

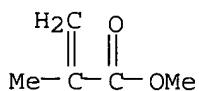
CM 1

CRN 451470-91-0

CMF C18 H13 Cl N8 O4

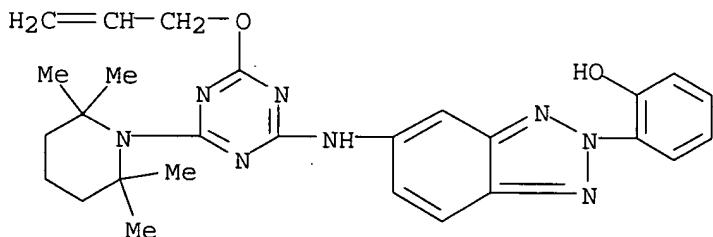


CM 2

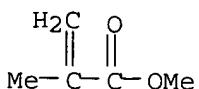
CRN 80-62-6
CMF C5 H8 O2

RN 473576-35-1 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-[5-[[4-(2-propenyl)oxy]-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 473576-31-7
CMF C27 H32 N8 O2

CM 2

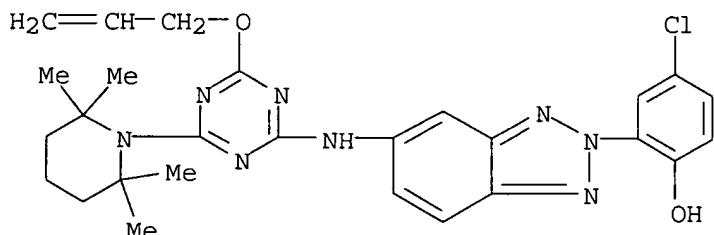
CRN 80-62-6
CMF C5 H8 O2

RN 473576-36-2 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 4-chloro-2-[5-[[4-(2-propenyl)oxy]-6-(2,2,6,6-tetramethyl-1-piperidinyl)-

1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

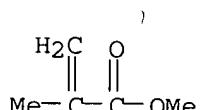
CM 1

CRN 473576-32-8
CMF C27 H31 Cl N8 O2



CM 2

CRN 80-62-6
CMF C5 H8 O2

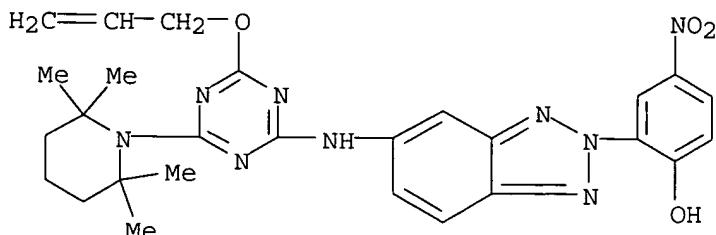


RN 473576-37-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 4-nitro-2-[5-[(4-(2-propenoxy)-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

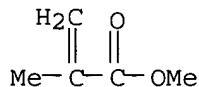
CM 1

CRN 473576-33-9
CMF C27 H31 N9 O4



CM 2

CRN 80-62-6
CMF C5 H8 O2



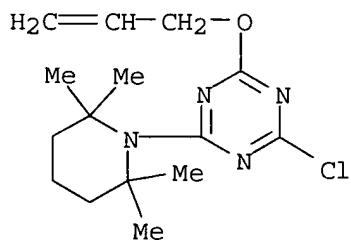
RN 473576-38-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-chloro-4-(2-propenoxy)-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-
triazine and 2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-
2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 219320-49-7

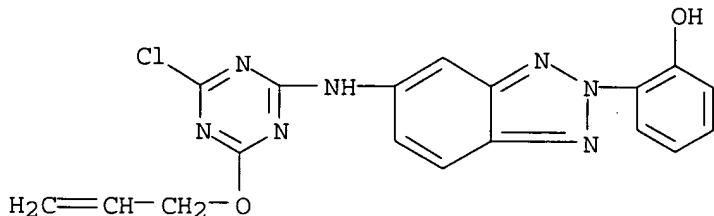
CMF C15 H23 C1 N4 O



CM 2

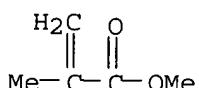
CRN 153976-86-4

CMF C18 H14 Cl N7 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



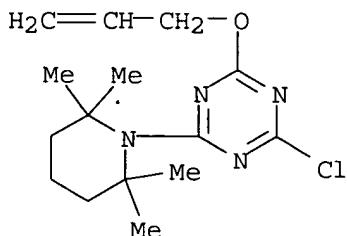
RN 473576-39-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
4-chloro-2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-
benzotriazol-2-yl]phenol and 2-chloro-4-(2-propenyloxy)-6-(2,2,6,6-
tetramethyl-1-piperidinyl)-1,3,5-triazine (9CI) (CA INDEX NAME)

CM 1

CRN 219320-49-7

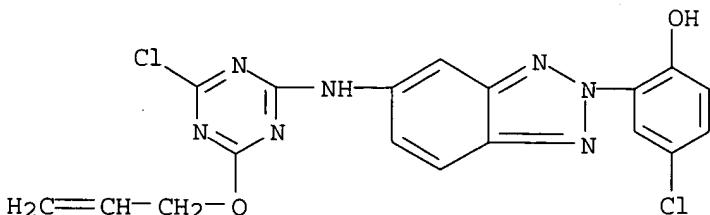
CMF C15 H23 Cl N4 O



CM 2

CRN 153976-87-5

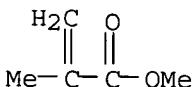
CMF C18 H13 Cl2 N7 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2

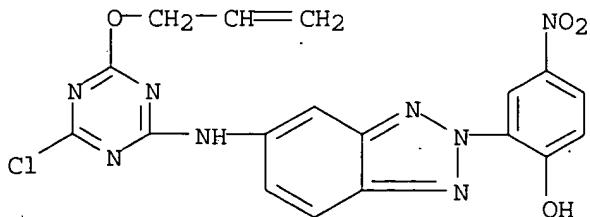


RN 473576-40-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-chloro-4-(2-propenyloxy)-6-(2,2,6,6-tetramethyl-1-piperidinyl)-1,3,5-
triazine and 2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-
2H-benzotriazol-2-yl]-4-nitrophenol (9CI) (CA INDEX NAME)

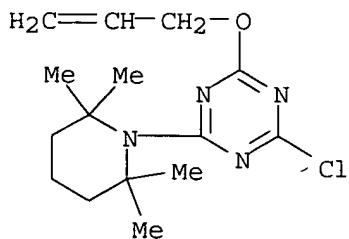
CM 1

CRN 451470-91-0
 CMF C18 H13 Cl N8 O4



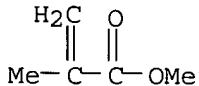
CM 2

CRN 219320-49-7
 CMF C15 H23 Cl N4 O



CM 3

CRN 80-62-6
 CMF C5 H8 O2

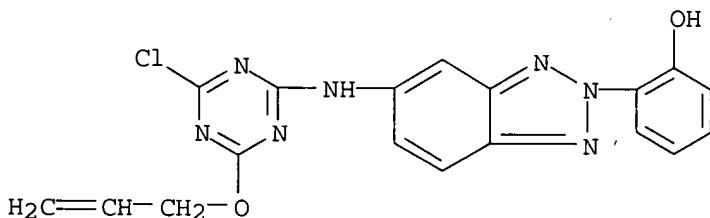


AB The synthesis of new stabilizer type compds. (a combination between 2,2,6,6-tetramethylpiperidine and 2-hydroxyphenylbenzotriazole in one mol.) is reported. Three new polymerizable combined stabilizers as well as one unsatd. triazinyl-2,2,6,6-tetramethylpiperidine and three unsatd. triazinyl-2-hydroxyphenylbenzotriazoles as individual stabilizers were synthesized. Their copolymers and the terpolymers of the individual stabilizers with Me methacrylate (MMA) were obtained. Chem. bonding of the stabilizers in the polymer was confirmed spectrophotometrically. The influence of these additives on the photostability of the copolymers was studied. The participation of the combined stabilizers in the polymn. did not affect considerably the rate of copolymn., the mol. wt. and polydispersity of the copolymers. A significant stabilizing effect against photodegrdn. was detd.

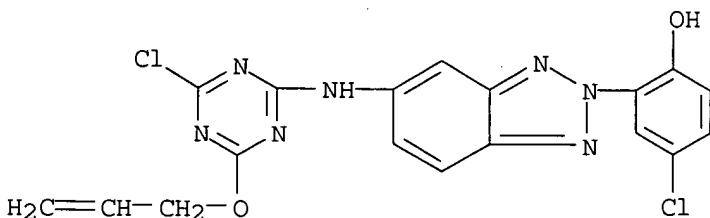
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

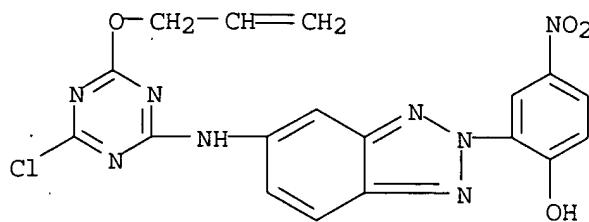
L4 ANSWER 4 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:371737 CAPLUS
 DN 137:186312
 TI Synthesis and properties of adducts of a hindered amine and 2-hydroxyphenylbenzotriazole as novel polymer stabilizers
 AU Bojinov, Vladimir
 CS Organic Synthesis Department, University of Chemical Technology and Metallurgy, Sofia, 1756, Bulg.
 SO Photochemical & Photobiological Sciences (2002), 1(5), 340-346
 CODEN: PPSHCB; ISSN: 1474-905X
 PB Royal Society of Chemistry
 DT Journal
 LA English
 IT 153976-86-4P 153976-87-5P 451470-91-0P
 451470-92-1P 451470-93-2P 451470-94-3P
 451470-95-4P 451470-96-5P 451470-97-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and properties of adducts of hindered amine and 2-hydroxyphenylbenzotriazole as polymer stabilizers)
 RN 153976-86-4 CAPLUS
 CN Phenol, 2-[5-[(4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl)amino]-2H-benzotriazol-2-yl]-(9CI) (CA INDEX NAME)



RN 153976-87-5 CAPLUS
 CN Phenol, 4-chloro-2-[5-[(4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl)amino]-2H-benzotriazol-2-yl]-(9CI) (CA INDEX NAME)

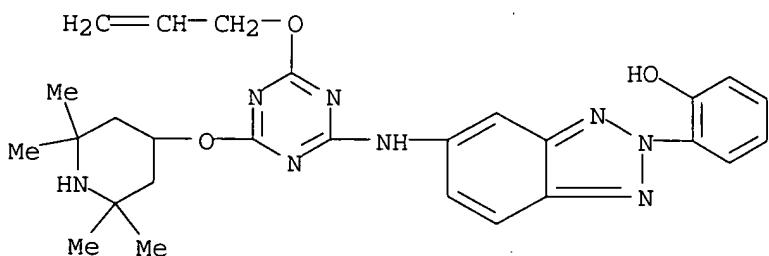


RN 451470-91-0 CAPLUS
 CN Phenol, 2-[5-[(4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl)amino]-2H-benzotriazol-2-yl]-4-nitro- (9CI) (CA INDEX NAME)



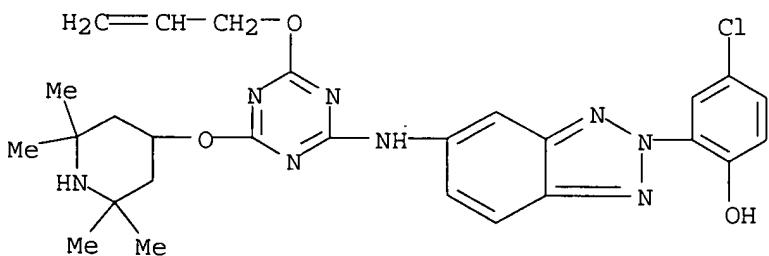
RN 451470-92-1 CAPLUS

CN Phenol, 2-[5-[(4-(2-propenyl)oxy)-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



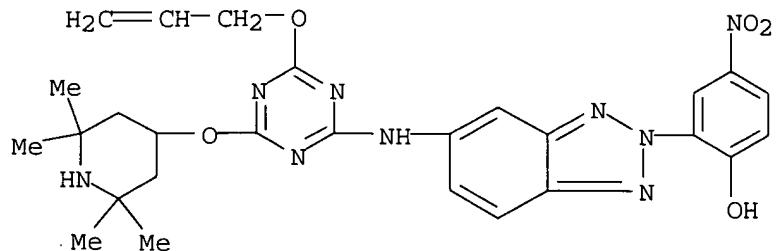
RN 451470-93-2 CAPLUS

CN Phenol, 4-chloro-2-[5-[(4-(2-propenyl)oxy)-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



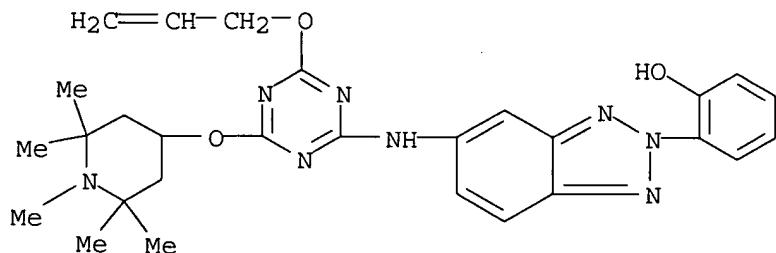
RN 451470-94-3 CAPLUS

CN Phenol, 4-nitro-2-[5-[(4-(2-propenyl)oxy)-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



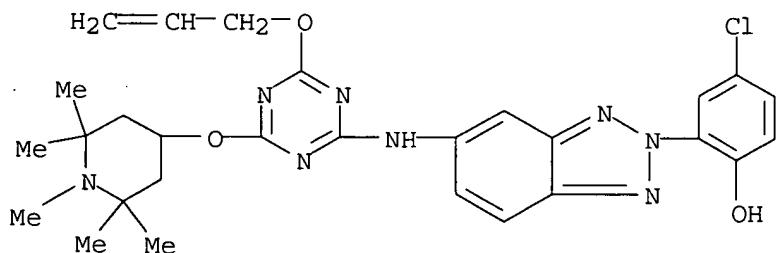
RN 451470-95-4 CAPLUS

CN Phenol, 2-[5-[(4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenyl)phenyl]amino]-1,3,5-triazin-2-yl]benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



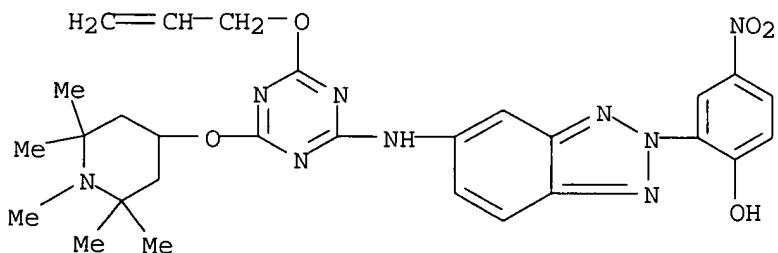
RN 451470-96-5 CAPLUS

CN Phenol, 4-chloro-2-[5-[(4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenyl)phenyl]amino]-1,3,5-triazin-2-yl]benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



RN 451470-97-6 CAPLUS

CN Phenol, 4-nitro-2-[5-[(4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenyl)phenyl]amino]-1,3,5-triazin-2-yl]benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



IT 230302-42-8P 230302-43-9P 451470-98-7P
 451470-99-8P 451471-00-4P 451471-01-5P
 451471-02-6P 451471-03-7P 451471-04-8P
 451471-05-9P 451471-06-0P 451471-07-1P
 451471-08-2P 451471-10-6P 451471-11-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis and properties of adducts of hindered amine and
 2-hydroxyphenylbenzotriazole as polymer stabilizers)

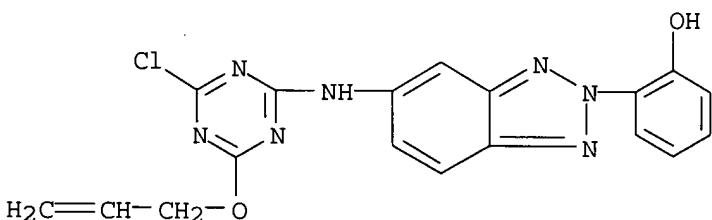
RN 230302-42-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-
 benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 153976-86-4

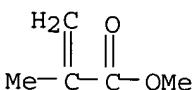
CMF C18 H14 Cl N7 O2



CM 2

CRN 80-62-6

CMF C5 H8 O2

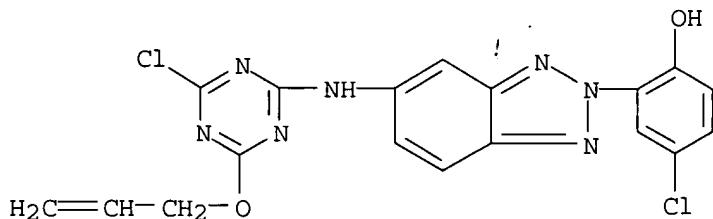


RN 230302-43-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 4-chloro-2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-
 benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

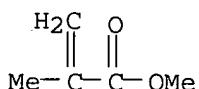
CM 1

CRN 153976-87-5
 CMF C18 H13 Cl2 N7 O2



CM 2

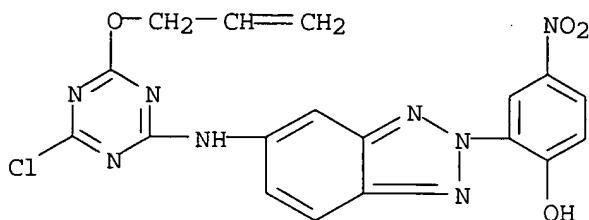
CRN 80-62-6
 CMF C5 H8 O2



RN 451470-98-7 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-[5-[(4-chloro-6-(2-propenylamino)-1,3,5-triazin-2-yl)amino]-2H-
 benzotriazol-2-yl]-4-nitrophenol (9CI) (CA INDEX NAME)

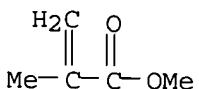
CM 1

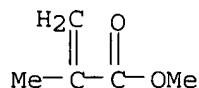
CRN 451470-91-0
 CMF C18 H13 Cl N8 O4



CM 2

CRN 80-62-6
 CMF C5 H8 O2





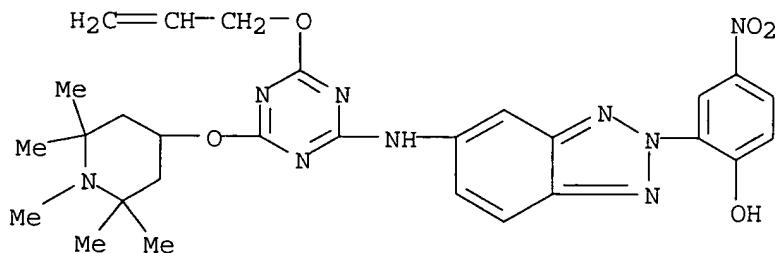
RN 451470-99-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
4-nitro-2-[5-[(4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-
propenyl)oxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI)
(CA INDEX NAME)

CM 1

CRN 451470-97-6

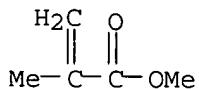
CMF C28 H33 N9 O5



CM 2

CRN 80-62-6

CMF C5 H8 O2



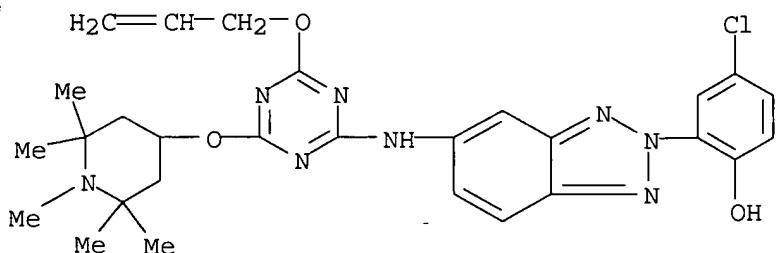
RN 451471-00-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
4-chloro-2-[5-[(4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-
propenyl)oxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI)
(CA INDEX NAME)

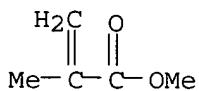
CM 1

CRN 451470-96-5

CMF C28 H33 Cl N8 O3

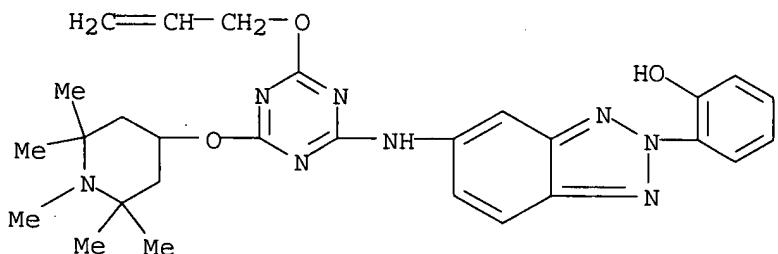


CM 2

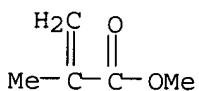
CRN 80-62-6
CMF C5 H8 O2

RN 451471-01-5 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-[5-[[4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-ylphenol (9CI) (CA INDEX NAME)

CM 1

CRN 451470-95-4
CMF C28 H34 N8 O3

CM 2

CRN 80-62-6
CMF C5 H8 O2

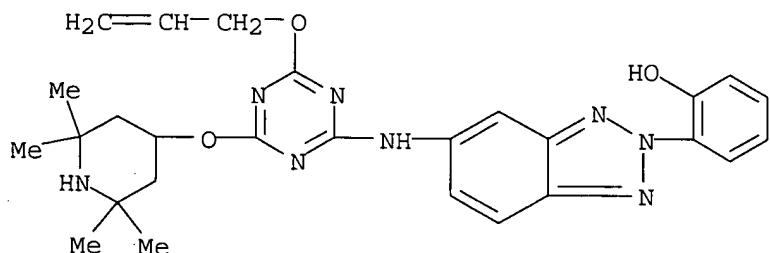
RN 451471-02-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-[5-[[4-(2-propenyl)oxy]-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 451470-92-1

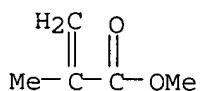
CMF C27 H32 N8 O3



CM 2

CRN 80-62-6

CMF C5 H8 O2



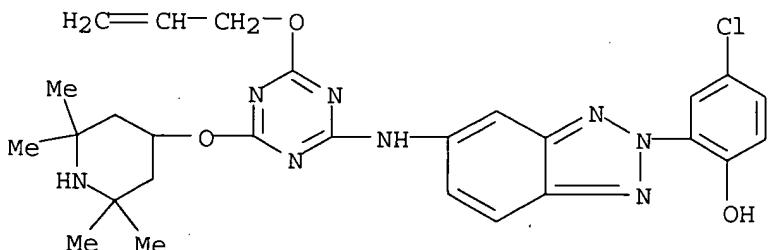
RN 451471-03-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
4-chloro-2-[5-[[4-(2-propenyl)oxy]-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

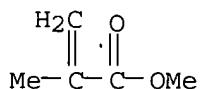
CM 1

CRN 451470-93-2

CMF C27 H31 Cl N8 O3

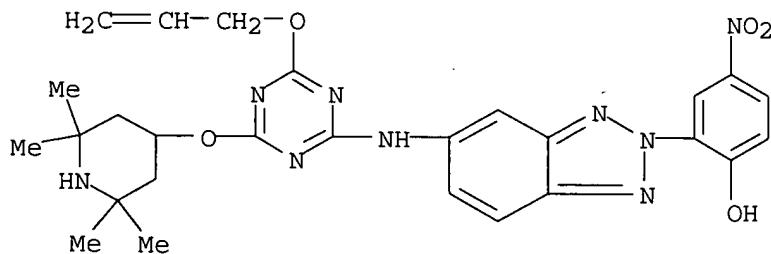


CM 2

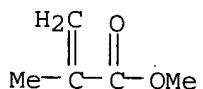
CRN 80-62-6
CMF C5 H8 O2

RN 451471-04-8 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 4-nitro-2-[5-[[4-(2-propenoxy)-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol
 (9CI) (CA INDEX NAME)

CM 1

CRN 451470-94-3
CMF C27 H31 N9 O5

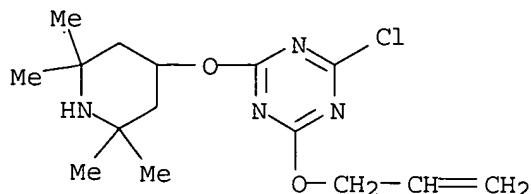
CM 2

CRN 80-62-6
CMF C5 H8 O2

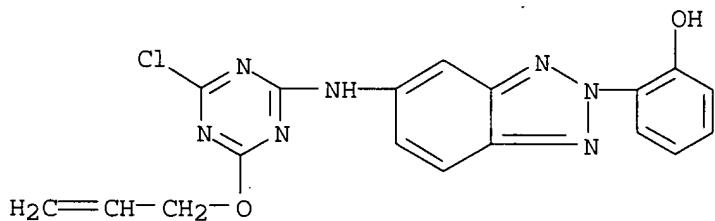
RN 451471-05-9 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-chloro-4-(2-propenoxy)-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-1,3,5-triazine and 2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

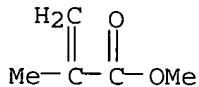
CRN 219320-48-6
CMF C15 H23 Cl N4 O2



CM 2

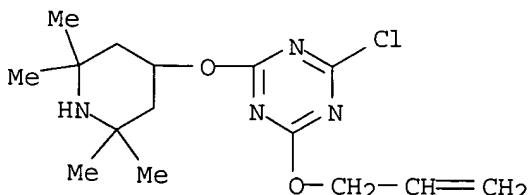
CRN 153976-86-4
CMF C18 H14 Cl N7 O2

CM 3

CRN 80-62-6
CMF C5 H8 O2

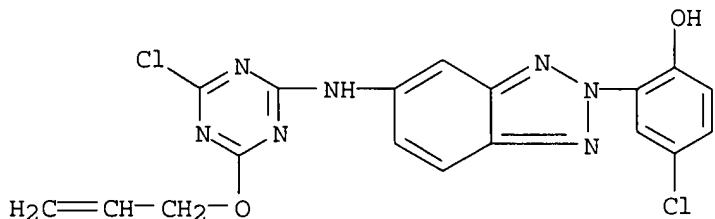
RN 451471-06-0 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 4-chloro-2-[5-[[4-chloro-6-(2-propenyl)-1,3,5-triazin-2-yl]amino]-2H-
 benzotriazol-2-yl]phenol and 2-chloro-4-(2-propenyl)-6-[(2,2,6,6-
 tetramethyl-4-piperidinyl)oxy]-1,3,5-triazine (9CI) (CA INDEX NAME)

CM 1

CRN 219320-48-6
CMF C15 H23 Cl N4 O2

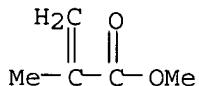
CM 2

CRN 153976-87-5
 CMF C18 H13 Cl2 N7 O2



CM 3

CRN 80-62-6
 CMF C5 H8 O2

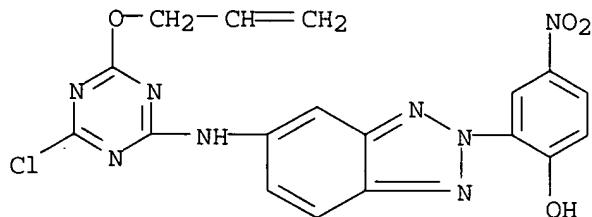


RN 451471-07-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-chloro-4-(2-propenyl)oxy)-6-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]-
 1,3,5-triazine and 2-[5-[[4-chloro-6-(2-propenyl)oxy)-1,3,5-triazin-2-
 yl]amino]-2H-benzotriazol-2-yl]-4-nitrophenol (9CI) (CA INDEX NAME)

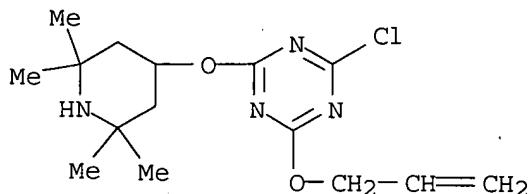
CM 1

CRN 451470-91-0
 CMF C18 H13 Cl N8 O4

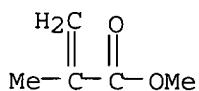


CM 2

CRN 219320-48-6
 CMF C15 H23 Cl N4 O2

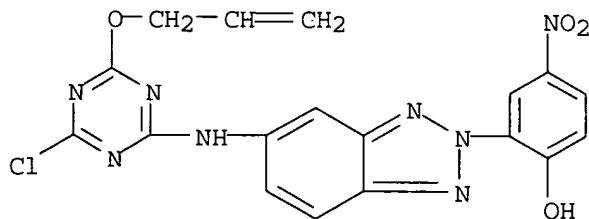


CM 3

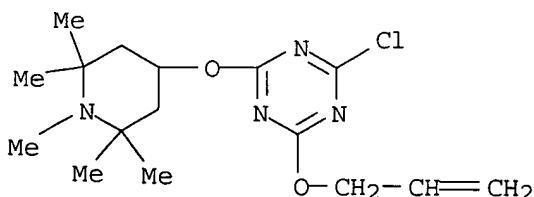
CRN 80-62-6
CMF C5 H8 O2

RN 451471-08-2 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-chloro-4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenyl)oxy)-
 1,3,5-triazine and 2-[5-[[4-chloro-6-(2-propenyl)oxy]-1,3,5-triazin-2-
 yl]amino]-2H-benzotriazol-2-yl]-4-nitrophenol (9CI) (CA INDEX NAME)

CM 1

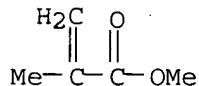
CRN 451470-91-0
CMF C18 H13 Cl N8 O4

CM 2

CRN 399017-97-1
CMF C16 H25 Cl N4 O2

CM 3

CRN 80-62-6
CMF C5 H8 O2

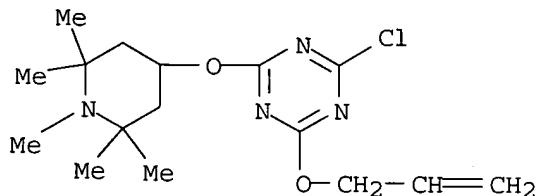


‘RN 451471-10-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-chloro-4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenyl) -
1,3,5-triazine and 2-[5-[[4-chloro-6-(2-propenyl)oxy]-1,3,5-triazin-2-
yl]amino]-2H-benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

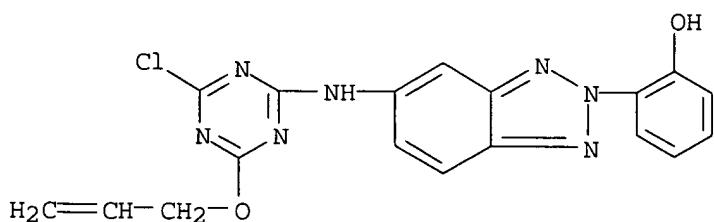
CM 1

CRN 399017-97-1
CMF C16 H25 Cl N4 O2



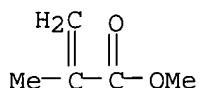
CM 2

CRN 153976-86-4
CMF C18 H14 C1 N7 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



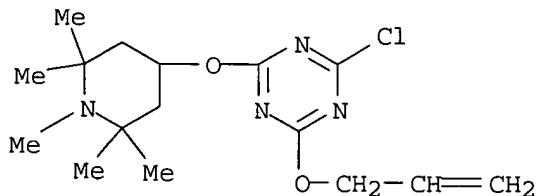
RN 451471-11-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 4-chloro-2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]phenol and 2-chloro-4-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]-6-(2-propenoxy)-1,3,5-triazine (9CI) (CA INDEX NAME)

CM 1

CRN 399017-97-1

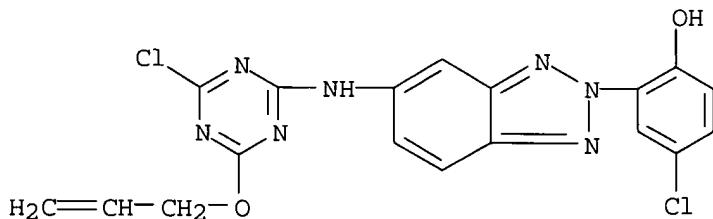
CMF C16 H25 Cl N4 O2



CM 2

CRN 153976-87-5

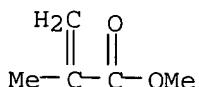
CMF C18 H13 Cl2 N7 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2

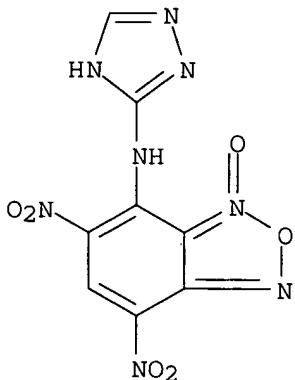


AB The synthesis of new types of stabilizers (a combination of 2,2,6,6-tetramethylpiperidine and 2-hydroxyphenylbenzotriazole in one mol.) is reported. Six polymerizable combined stabilizers as well as two

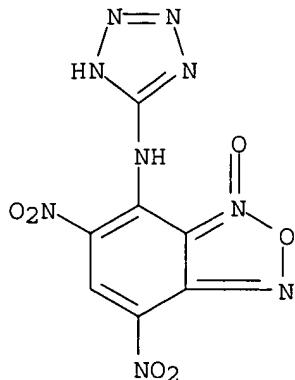
unsatd. triazinyl-2,2,6,6-tetramethylpiperidines and three unsatd. triazinyl-2-hydroxyphenylbenzotriazoles as individual stabilizers were synthesized. Their copolymers and the terpolymers of the individual stabilizers with Me methacrylate were obtained. Chem. bonding of the stabilizers in the polymer was confirmed spectrophotometrically. The influence of these additives on the photostability of the copolymers was studied. The participation of the combined stabilizers in the polymn. did not affect considerably the rate of copolymn., the mol. wt. and polydispersity of the copolymers. A significant stabilizing effect against photodegrdn. was detd.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 41 CAPLUS COPYRIGHT 2003 ACS
AN 2002:224458 CAPLUS
DN 137:22080
TI Synthesis, characterization and explosives properties of 7-(1H-1,2,4-triazol-3-amino)-4,6-dinitrobenzofuroxan (TADNB) and 7-(1H-1,2,3,4-tetrazol-5-amino)-4,6-dinitrobenzofuroxan (TeADNBF)
AU Mehilal; Sikder, Arun K.; Salunke, Rajendra B.; Sikder, Nirmala
CS High Energy Materials Research Laboratory, Pune, 411021, India
SO Journal of Energetic Materials (2002), 20(1), 39-51
CODEN: JOEMDK; ISSN: 0737-0652
PB Dowden, Brodman & Devine, Inc.
DT Journal
LA English
IT 435343-56-9P 435343-57-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis of; in synthesis of 7-(1H-1,2,4-triazol-3-amino)-4,6-dinitrobenzofuroxan and 7-(1H-1,2,3,4-tetrazol-5-amino)-4,6-dinitrobenzofuroxan)
RN 435343-56-9 CAPLUS
CN 2,1,3-Benzoxadiazol-4-amine, 5,7-dinitro-N-1H-1,2,4-triazol-3-yl-, 3-oxide (9CI) (CA INDEX NAME)



RN 435343-57-0 CAPLUS
CN 2,1,3-Benzoxadiazol-4-amine, 5,7-dinitro-N-1H-tetrazol-5-yl-, 3-oxide (9CI) (CA INDEX NAME)



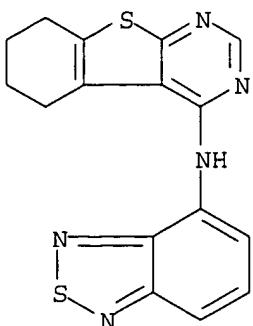
AB 7-(1H-1,2,4-triazol-3-amino)-4,6-dinitrobenzofuroxan and 7-(1H-1,2,3,4-tetrazol-5-amino)-4,6-dinitrobenzofuroxan were synthesized by condensing 7-chloro-4,6-dinitro benzofuroxan with 3-amino-1,2,4-triazole and 5-amino-1,2,3,4-tetrazole resp. The compds. were characterized by spectral data and elemental anal. Furthermore, some of the explosive properties of these compds. have also been investigated and reported herein.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:385531 CAPLUS
 DN 133:84237
 TI 4-[(benzo-2,1,3-thiadiazolyl-4)amino]-5,6,7,8-tetrahydrobenzothieno-(2,3-d)-pyrimidine showing anthelmintic activity in larval alveolar echinococcosis
 IN Mikhailitsyn, F. S.; Kovalenko, F. P.; Kozyreva, N. P.; Dzhabarova, V. I.; Lebedeva, M. N.; Mynzhanov, M. R.; Lychko, N. D.; Bulanova, T. E.
 PA Institut Meditsinskoi Parazitologii i Tropicheskoi Meditsiny im. E. I. Martsinovskogo, Russia
 SO Russ.
 From: Izobreteniya 1998, (21), 258.
 CODEN: RUXXE7
 DT Patent
 LA Russian
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2116309	C1	19980727	RU 1997-102130	19970213
				RU 1997-102130	19970213

IT 188550-08-5
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (4-[(benzo-2,1,3-thiadiazolyl-4)amino]-5,6,7,8-tetrahydrobenzothieno-(2,3-d)-pyrimidine showing anthelmintic activity in larval alveolar echinococcosis)
 RN 188550-08-5 CAPLUS
 CN [1]Benzothieno[2,3-d]pyrimidin-4-amine, N-2,1,3-benzothiadiazol-4-yl-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



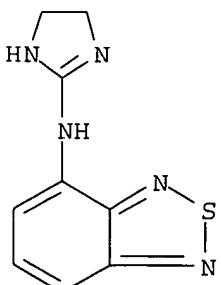
AB Title only translated.

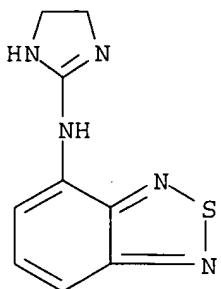
L4 ANSWER 7 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:344126 CAPLUS
 DN 132:347553
 TI Process for making 2-amino-2-imidazoline, guanidine, and
 2-amino-3,4,5,6-tetrahydropyrimidine derivatives
 IN Godlewski, Michael Selden; Klopfenstein, Sean Rees; Mundla, Sreenivasa
 Reddy; Seibel, William Lee; Muth, Randy Stuart
 PA The Procter & Gamble Company, USA
 SO U.S., 20 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6066740	A	20000523	US 1997-977907	19971125
				US 1997-977907	19971125
OS	CASREACT 132:347553; MARPAT 132:347553				
IT	269082-92-0P RL: IMF (Industrial manufacture); SPN (Synthetic preparation); .PREP (Preparation) (prepn. of 2-amino-2-imidazoline, guanidine, and 2-amino-3,4,5,6- tetrahydropyrimidine derivs.)				
RN	269082-92-0 CAPLUS				
CN	2,1,3-Benzothiadiazol-4-amine, N-(4,5-dihydro-1H-imidazol-2-yl)-, monoacetate (9CI) (CA INDEX NAME)				

CM 1

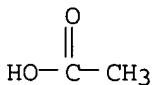
CRN 51322-69-1
 CMF C9 H9 N5 S





CM 2

CRN 64-19-7
 CMF C2 H4 O2



AB The present invention provides a process for making 2-amino-2-imidazoline, guanidine, and 2-amino-3,4,5,6-tetrahydropyrimidine derivs. by prep. the corresponding activated 2-thio-substituted-2-deriv. in a two-step, one-pot procedure and by further reacting yields this isolated deriv. with the appropriate amine or its salts in the presence of a proton source. The present process allows for the prepn. of 2-amino-2-imidazolines, guanidines, and 2-amino-3,4,5,6-tetrahydropyrimidines under reaction conditions that eliminate the need for lengthy, costly, or multiple low yielding steps, and highly toxic reactants. This process allows for improved yields and product purity and provides addnl. synthetic flexibility. E.g., reaction of 2,6-dichloroaniline and N-carbomethoxy-2-thiomethyl-2-imidazoline (prepn. given) gave 2-[(2,6-dichlorophenyl)amino]-2-imidazoline as its acetate salt.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:37672 CAPLUS

DN 132:77676

TI Saccharide derivatives and their enzymic manufacture using electronic mediators

IN Hayade, Koji; Tsugawa, Wakako; Hamafuji, Tetsuo

PA Kokusai Shiyaku K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

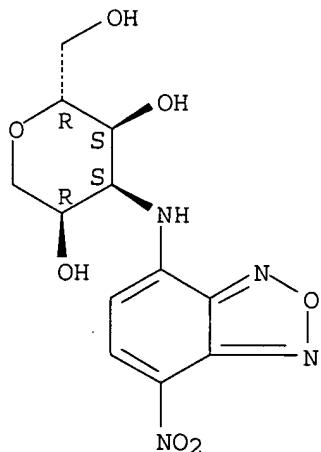
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000014395	A2	20000118	JP 1998-187368	19980702
				JP 1998-187368	19980702
OS	MARPAT 132:77676				
IT	254103-37-2P				

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (enzymic manuf. of saccharide derivs. using electronic mediators)

RN 254103-37-2 CAPLUS

CN D-Allitol, 1,5-anhydro-3-deoxy-3-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB OH groups of sugars is enzymically converted into other substituents in the presence of mediators. 1,5-Anhydroglucitol (I) was oxidized in the presence of α -15 D-glucoside 3-dehydrogenase (EC 1.1.99.13; of Deleya sp. α -15) and K ferricyanide (II) while electrochem. oxidizing K ferrocyanide into II at 25.degree. and 370 mV for 16 h to give 51% 3-keto-I, which was converted into 3-fluorescently labeled I in 3 steps.

L4 ANSWER 9 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1999:511157 CAPLUS

DN 131:144607

TI Preparation of benzothiadiazoles and analogs as CRF1 receptor antagonists

IN Neumann, Bernhard Peter

PA Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft Mbh

SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent

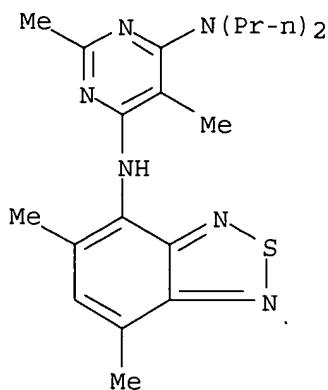
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9940089	A1	19990812	WO 1999-EP622	19990201
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

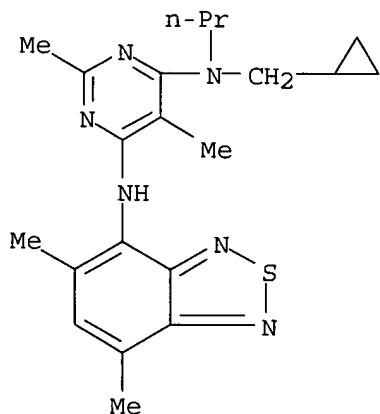
CA 2318977	AA	19990812	GB 1998-2251 A 19980203
			CA 1999-2318977 19990201
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
AU 9932521	A1	19990823	AU 1999-32521 19990201
AU 745051	B2	20020307	GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
EP 1049694	A1	20001108	EP 1999-934200 19990201
EP 1049694	B1	20020515	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
BR 9909739	A	20010320	BR 1999-9739 19990201
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
JP 2002502853	T2	20020129	JP 2000-530518 19990201
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
AT 217622	E	20020615	AT 1999-934200 19990201
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
ES 2178451	T3	20021216	ES 1999-934200 19990201
			GB 1998-2251 A 19980203
NZ 505970	A	20030328	NZ 1999-505970 19990201
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
ZA 9900800	A	19990803	ZA 1999-800 19990202
			GB 1998-2251 A 19980203
NO 2000003916	A	20000928	NO 2000-3916 20000802
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
US 2002123629	A1	20020905	US 2002-77150 20020215
			GB 1998-2251 A 19980203
			WO 1999-EP622 W 19990201
			US 2000-601463 A120001031
OS	MARPAT 131:144607		
IT	235759-69-0P 235759-70-3P 235759-72-5P 235759-74-7P 235759-75-8P 235759-76-9P 235759-77-0P 235759-78-1P 235759-79-2P 235759-80-5P 235759-81-6P 235759-83-8P 235759-84-9P 235759-85-0P 235759-86-1P 235759-87-2P 235759-89-4P 235759-90-7P 235759-91-8P 235759-92-9P 235759-93-0P 235759-94-1P 235759-95-2P 235759-96-3P 235759-97-4P 235759-98-5P 235759-99-6P 235760-00-6P 235760-02-8P 235760-03-9P 235760-04-0P 235760-05-1P 235760-06-2P 235760-07-3P 235760-08-4P 235760-09-5P 235760-10-8P 235760-21-1P 235760-22-2P 235760-35-7P		
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of benzothiadiazoles and analogs as CRF1 receptor antagonists)		
RN	235759-69-0 CAPLUS		
CN	4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2,5-		

dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



RN 235759-70-3 CAPLUS

CN 4,6-Pyrimidinediamine, N-(cyclopropylmethyl)-N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



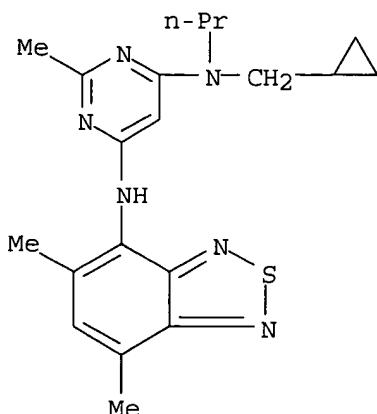
RN 235759-72-5 CAPLUS

CN 4,6-Pyrimidinediamine, N-(cyclopropylmethyl)-N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2-methyl-N-propyl-, (2E)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

CRN 235759-71-4

CMF C20 H26 N6 S

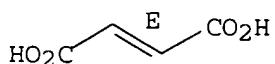


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



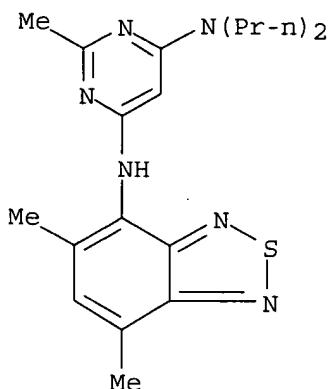
RN 235759-74-7 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2-methyl-N,N-dipropyl-, (2E)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

CRN 235759-73-6

CMF C19 H26 N6 S

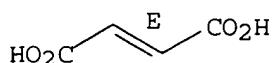


CM 2

CRN 110-17-8

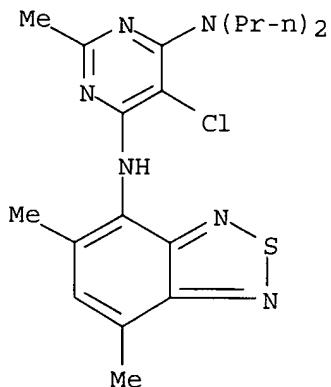
CMF C4 H4 O4

Double bond geometry as shown.



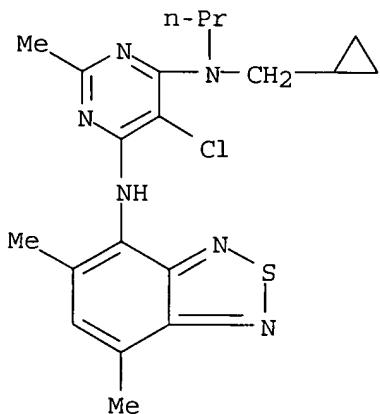
RN 235759-75-8 CAPLUS

CN 4,6-Pyrimidinediamine, 5-chloro-N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2-methyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



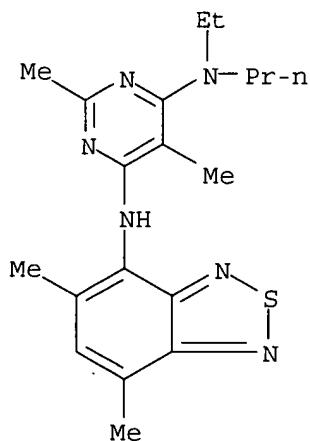
RN 235759-76-9 CAPLUS

CN 4,6-Pyrimidinediamine, 5-chloro-N-(cyclopropylmethyl)-N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2-methyl-N-propyl- (9CI) (CA INDEX NAME)



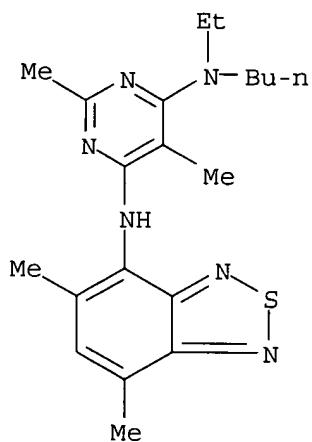
RN 235759-77-0 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-N-ethyl-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



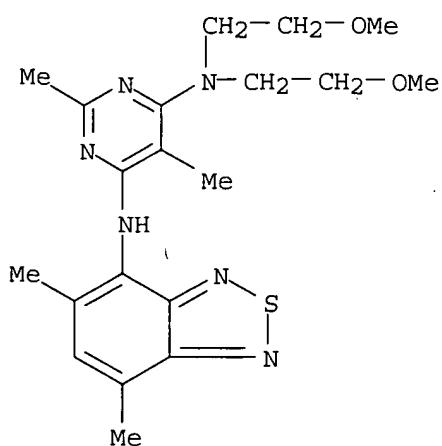
RN 235759-78-1 CAPLUS

CN 4,6-Pyrimidinediamine, N-butyl-N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-N-ethyl-2,5-dimethyl- (9CI) (CA INDEX NAME)



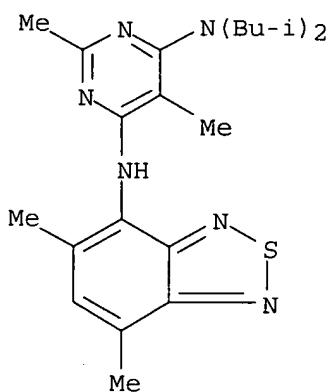
RN 235759-79-2 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-N,N-bis(2-methoxyethyl)-2,5-dimethyl- (9CI) (CA INDEX NAME)



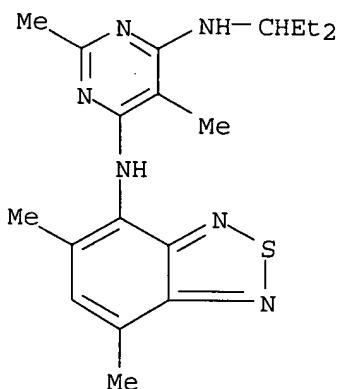
RN 235759-80-5 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N,N-bis(2-methylpropyl)- (9CI) (CA INDEX NAME)



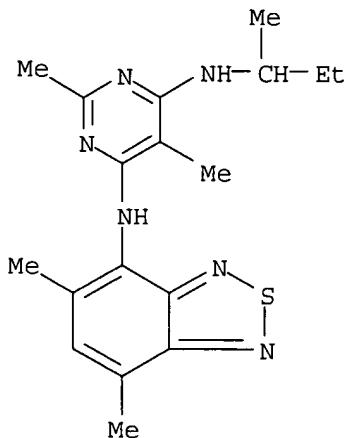
RN 235759-81-6 CAPLUS

CN 4,6-Pyrimidinediamine, N-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-N'-(1-ethylpropyl)-2,5-dimethyl- (9CI) (CA INDEX NAME)



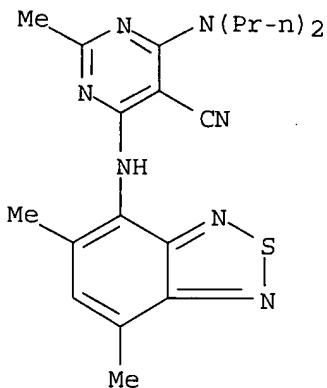
RN 235759-83-8 CAPLUS

CN 4,6-Pyrimidinediamine, N-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N'-(1-methylpropyl)- (9CI) (CA INDEX NAME)



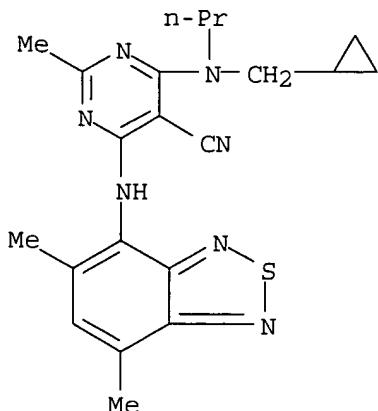
RN 235759-84-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)amino]-6-(dipropylamino)-2-methyl- (9CI) (CA INDEX NAME)



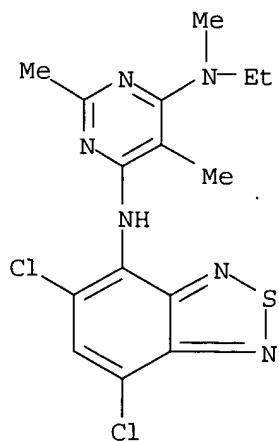
RN 235759-85-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[(cyclopropylmethyl)propylamino]-6-[(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)amino]-2-methyl- (9CI) (CA INDEX NAME)



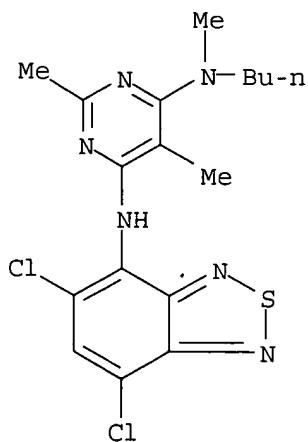
RN 235759-86-1 CAPLUS

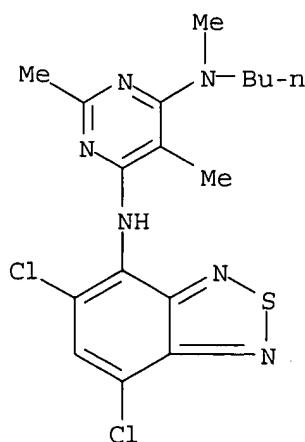
CN 4,6-Pyrimidinediamine, N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-N-ethyl-N,2,5-trimethyl- (9CI) (CA INDEX NAME)



RN 235759-87-2 CAPLUS

CN 4,6-Pyrimidinediamine, N-butyl-N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-N,2,5-trimethyl- (9CI) (CA INDEX NAME)





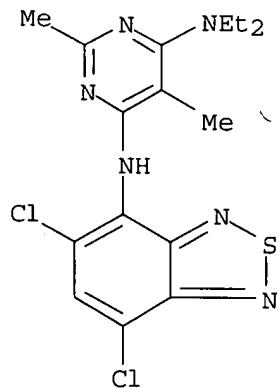
RN 235759-89-4 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-N,N-diethyl-2,5-dimethyl-, (2E)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

CRN 235759-88-3

CMF C16 H18 Cl2 N6 S

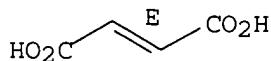


CM 2

CRN 110-17-8

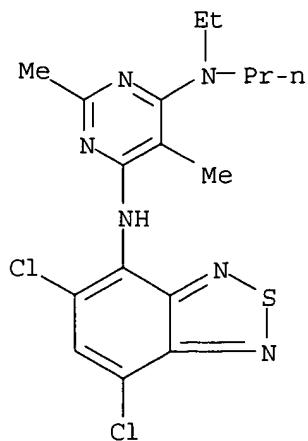
CMF C4 H4 O4

Double bond geometry as shown.



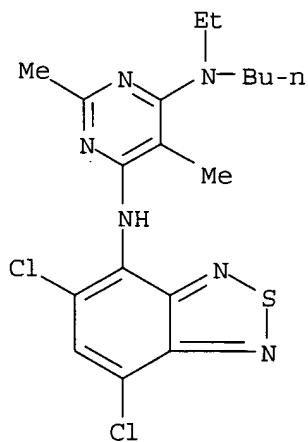
RN 235759-90-7 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-N-ethyl-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



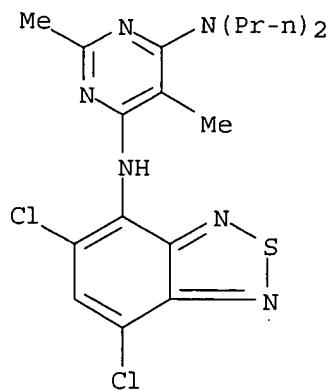
RN 235759-91-8 CAPLUS

CN 4,6-Pyrimidinediamine, N-butyl-N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-N-ethyl-2,5-dimethyl- (9CI) (CA INDEX NAME)



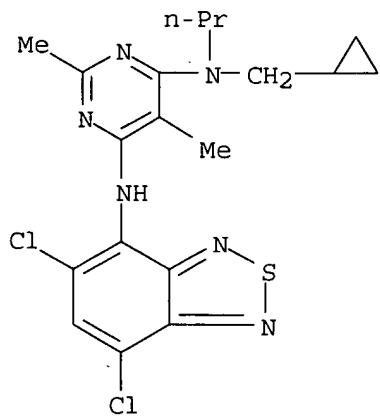
RN 235759-92-9 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



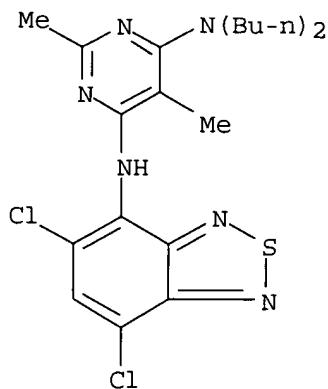
RN 235759-93-0 CAPLUS

CN 4,6-Pyrimidinediamine, N-(cyclopropylmethyl)-N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



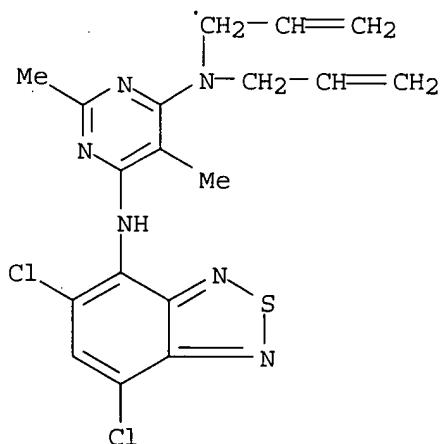
RN 235759-94-1 CAPLUS

CN 4,6-Pyrimidinediamine, N,N-dibutyl-N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl- (9CI) (CA INDEX NAME)



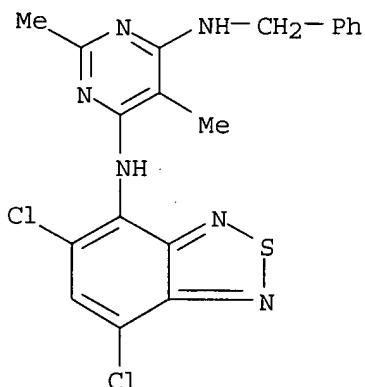
RN 235759-95-2 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5',7-dichloro-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)



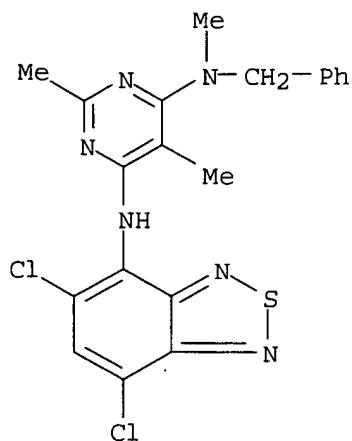
RN 235759-96-3 CAPLUS

CN 4,6-Pyrimidinediamine, N-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



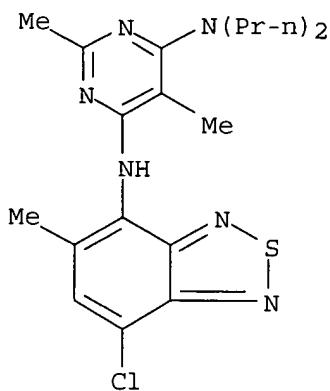
RN 235759-97-4 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dichloro-2,1,3-benzothiadiazol-4-yl)-N,2,5-trimethyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



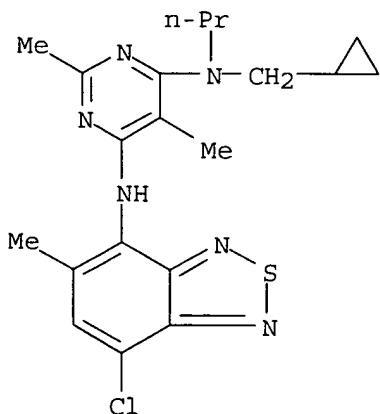
RN 235759-98-5 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(7-chloro-5-methyl-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



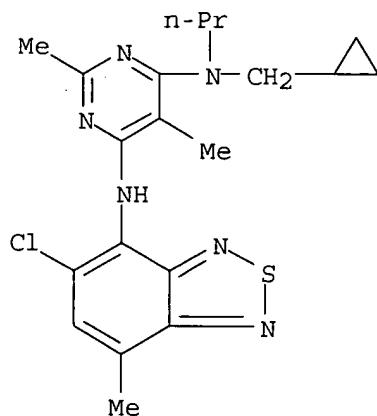
RN 235759-99-6 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(7-chloro-5-methyl-2,1,3-benzothiadiazol-4-yl)-N-(cyclopropylmethyl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



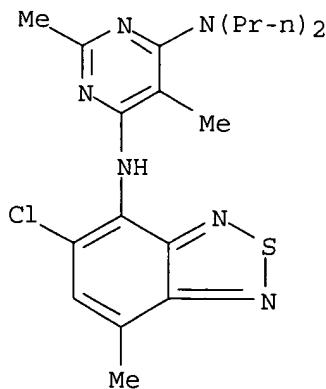
RN 235760-00-6 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5-chloro-7-methyl-2,1,3-benzothiadiazol-4-yl)-N-(cyclopropylmethyl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



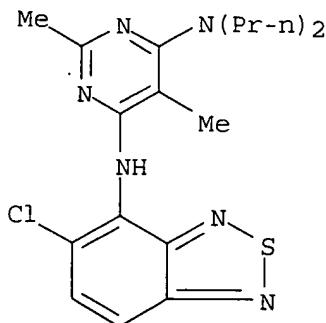
RN 235760-02-8 CAPLUS

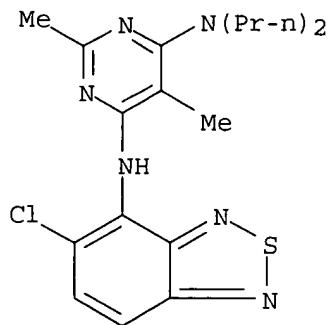
CN 4,6-Pyrimidinediamine, N'-(5-chloro-7-methyl-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



RN 235760-03-9 CAPLUS

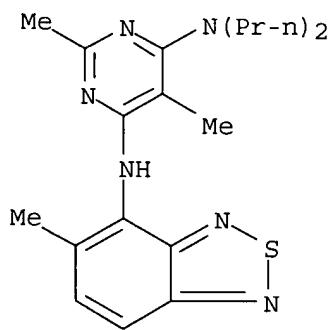
CN 4,6-Pyrimidinediamine, N'-(5-chloro-2,1,3-benzothiadiazol-4-yl)-2,5-dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)





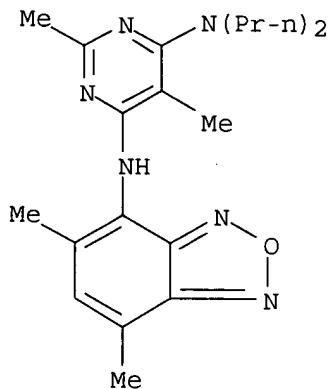
RN 235760-04-0 CAPLUS

CN 4,6-Pyrimidinediamine, 2,5-dimethyl-N'-(5-methyl-2,1,3-benzothiadiazol-4-yl)-N,N-dipropyl- (9CI) (CA INDEX NAME)



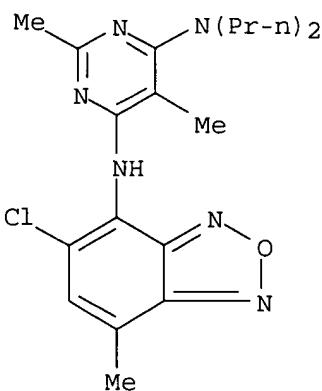
RN 235760-05-1 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzoxadiazol-4-yl)-2,5-dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



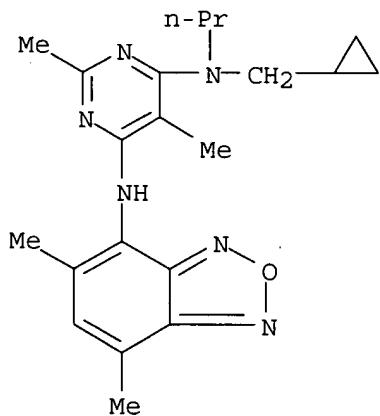
RN 235760-06-2 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5-chloro-7-methyl-2,1,3-benzoxadiazol-4-yl)-2,5-dimethyl-N,N-dipropyl- (9CI) (CA INDEX NAME)



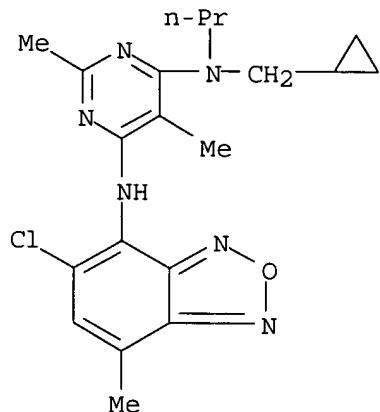
RN 235760-07-3 CAPLUS

CN 4,6-Pyrimidinediamine, N-(cyclopropylmethyl)-N'-(5,7-dimethyl-2,1,3-benzoxadiazol-4-yl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



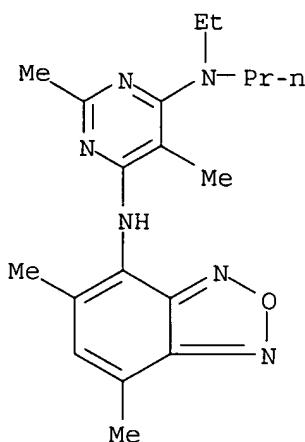
RN 235760-08-4 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5-chloro-7-methyl-2,1,3-benzoxadiazol-4-yl)-N-(cyclopropylmethyl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



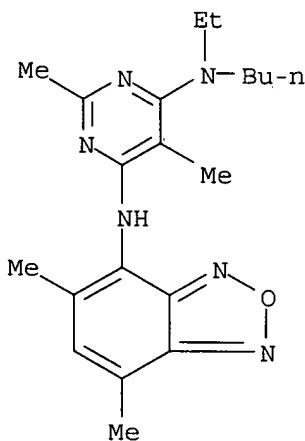
RN 235760-09-5 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(5,7-dimethyl-2,1,3-benzoxadiazol-4-yl)-N-ethyl-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



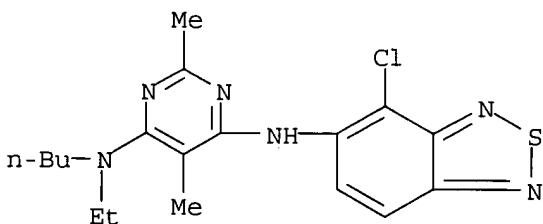
RN 235760-10-8 CAPLUS

CN 4,6-Pyrimidinediamine, N-butyl-N'-(5,7-dimethyl-2,1,3-benzoxadiazol-4-yl)-N-ethyl-2,5-dimethyl- (9CI) (CA INDEX NAME)



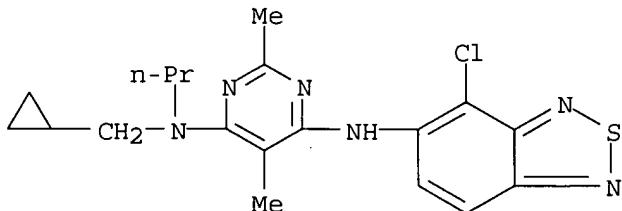
RN 235760-21-1 CAPLUS

CN 4,6-Pyrimidinediamine, N-butyl-N'-(4-chloro-2,1,3-benzothiadiazol-5-yl)-N-ethyl-2,5-dimethyl- (9CI) (CA INDEX NAME)



RN 235760-22-2 CAPLUS

CN 4,6-Pyrimidinediamine, N'-(4-chloro-2,1,3-benzothiadiazol-5-yl)-N-(cyclopropylmethyl)-2,5-dimethyl-N-propyl- (9CI) (CA INDEX NAME)



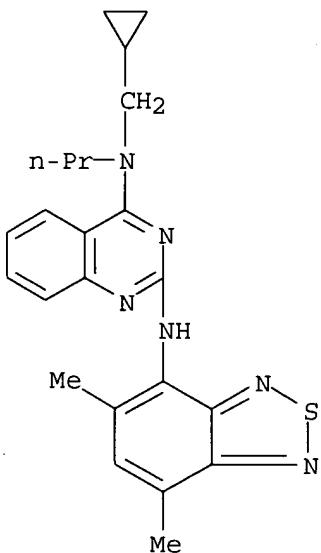
RN 235760-35-7 CAPLUS

CN 2,4-Quinazolinediamine, N2-(cyclopropylmethyl)-N4-(5,7-dimethyl-2,1,3-benzothiadiazol-4-yl)-N4-propyl-, (2E)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

CRN 235760-34-6

CMF C23 H26 N6 S

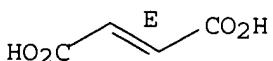


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.

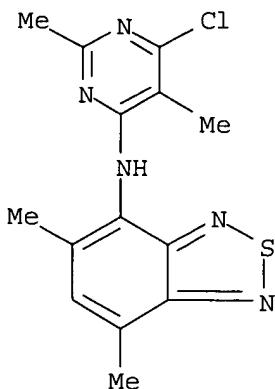


IT 235760-38-0P

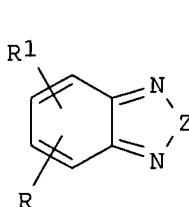
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of benzothiadiazoles and analogs as CRF1 receptor antagonists)

RN 235760-38-0 CAPLUS

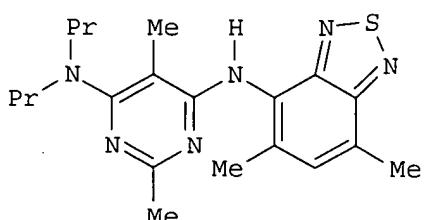
CN 2,1,3-Benzothiadiazol-4-amine, N-(6-chloro-2,5-dimethyl-4-pyrimidinyl)-5,7-dimethyl- (9CI) (CA INDEX NAME)



GI



I



II

AB Title compds. [I; (aminopyrimidinyl)amino, 4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl, etc.; R1 = H or 1 or 2 of halo, alkyl, alkoxy, CF3; Z = O, S, NMe, CR2:CR2; R2 = both H or both alkyl] were prep'd. Thus, 4,6-dimethyl-2,1,3-benzothiadiazole was converted in 2 steps to 4-amino-5,7-dimethyl-2,1,3-benzothiadiazole which was N-arylated by 4,6-dichloro-2,5-dimethylpyrimidine to give, after amination, title compd. II. Data for biol. activity of I were given.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1999:329730 CAPLUS

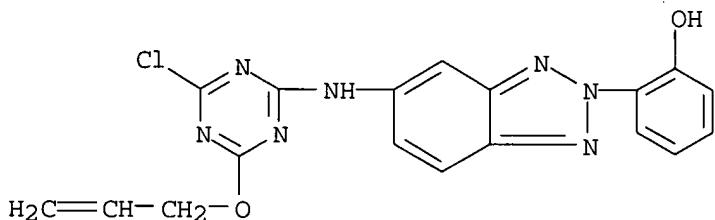
DN 131:88486

TI Synthesis and properties of copolymers of triazinylaminobenzotriazole stabilizers with methyl methacrylate

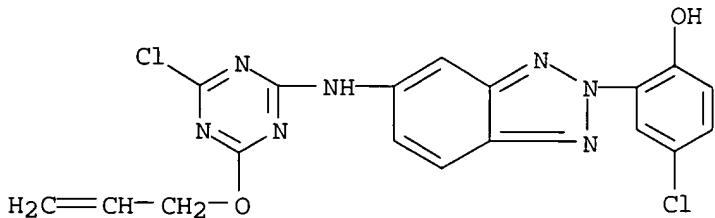
AU Konstantinova, T.; Konstantinov, Hr.; Avramov, L.

CS Department of Organic Synthesis, University of Chemical Technology and

Metallurgy (UCTM), Sofia, 1756, Bulg.
 SO Polymer Degradation and Stability (1999), 64(2), 235-237
 CODEN: PDSTDW; ISSN: 0141-3910
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 IT 153976-86-4 153976-87-5
 RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
 (kinetics of Me methacrylate polyrn. with)
 RN 153976-86-4 CAPLUS
 CN Phenol, 2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



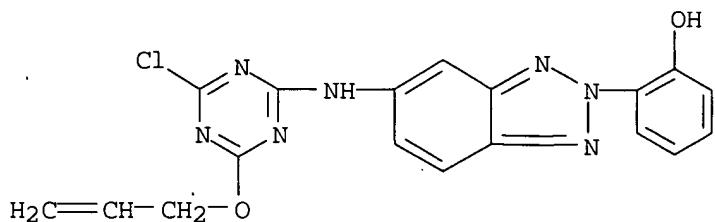
RN 153976-87-5 CAPLUS
 CN Phenol, 4-chloro-2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl] - (9CI) (CA INDEX NAME)



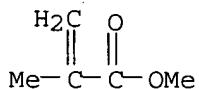
IT 230302-42-8P 230302-43-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and properties of)
 RN 230302-42-8 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-[5-[[4-chloro-6-(2-propenoxy)-1,3,5-triazin-2-yl]amino]-2H-
 benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 153976-86-4
 CMF C18 H14 Cl N7 O2

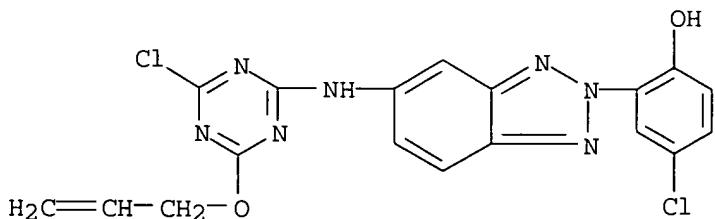


CM 2

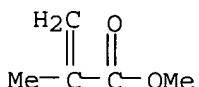
CRN 80-62-6
CMF C5 H8 O2

RN 230302-43-9 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 4-chloro-2-[5-[(4-chloro-6-(2-propenylamino)-1,3,5-triazin-2-yl)amino]-2H-
 benzotriazol-2-yl]phenol (9CI) (CA INDEX NAME)

CM 1

CRN 153976-87-5
CMF C18 H13 Cl2 N7 O2

CM 2

CRN 80-62-6
CMF C5 H8 O2

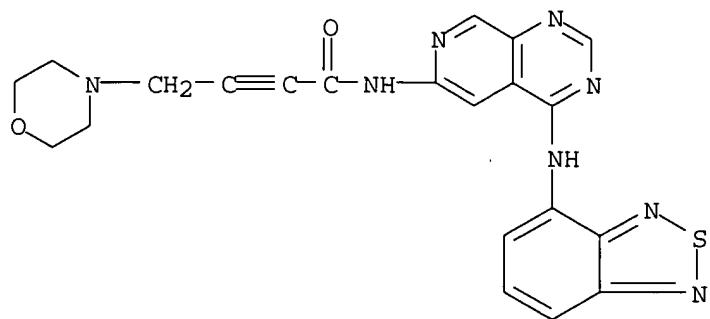
AB Copolymer of Me methacrylate with two unsatd. triazinylaminobenzotriazole deriv. UV stabilizers was investigated. Chem. bonding of the stabilizer in the polymer was confirmed spectrophotometrically. The kinetics of

copolymn. was studied. A stabilizing effect was achieved at 0.1 wt% initial concn. of the unsatd. triazinylaminobenzotriazole deriv.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

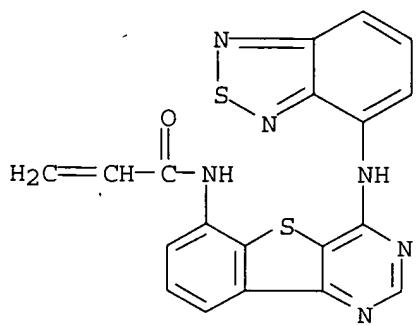
L4 ANSWER 11 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:113672 CAPLUS
 DN 130:182476
 TI Preparation of heterocyclic compounds as irreversible bicyclic inhibitors of tyrosine kinases
 IN Bridges, Alexander James
 PA Warner-Lambert Company, USA
 SO PCT Int. Appl., 131 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 PAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9906396	A1	19990211	WO 1998-US15592	19980729
	W: AL, AU, BA, BB, BG, BR, CA, CN, CZ, EE, GE, HR, HU, ID, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				US 1997-54061P	P 19970729
	AU 9886659	A1	19990222	AU 1998-86659	19980729
				US 1997-54061P	P 19970729
				WO 1998-US15592W	19980729
	US 6153617	A	20001128	US 1999-269647	19990325
				US 1997-54061P	P 19970729
				WO 1998-US15592W	19980729
	US 2003087881	A1	20030508	US 2002-272651	20021017
				US 1997-54061P	P 19970729
				WO 1998-US15592W	19980729
				US 1999-269647	A319990325
				US 2000-656331	B120000906
OS	MARPAT 130:182476				
IT	220577-61-7P 220577-63-9P 220578-06-3P 220578-07-4P 220578-12-1P 220578-13-2P				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heterocyclic compds. as irreversible bicyclic inhibitors of tyrosine kinases)				
RN	220577-61-7 CAPLUS				
CN	2-Butynamide, N-[4-(2,1,3-benzothiadiazol-4-ylamino)pyrido[3,4-d]pyrimidin-6-yl]-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)				



RN 220577-63-9 CAPLUS

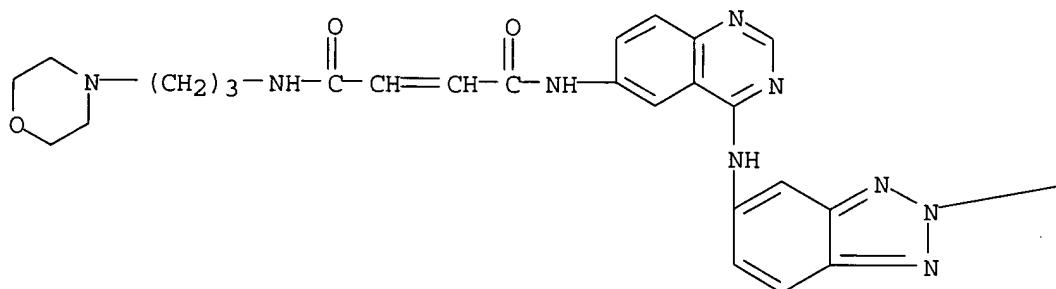
CN 2-Propenamide, N-[4-(2,1,3-benzothiadiazol-4-ylamino)[1]benzothieno[3,2-d]pyrimidin-6-yl] - (9CI) (CA INDEX NAME)



RN 220578-06-3 CAPLUS

CN 2-Butenediamide, N-[3-(4-morpholinyl)propyl]-N'-[4-[[2-(phenylmethyl)-2H-benzotriazol-5-yl]amino]-6-quinazolinyl] - (9CI) (CA INDEX NAME)

PAGE 1-A

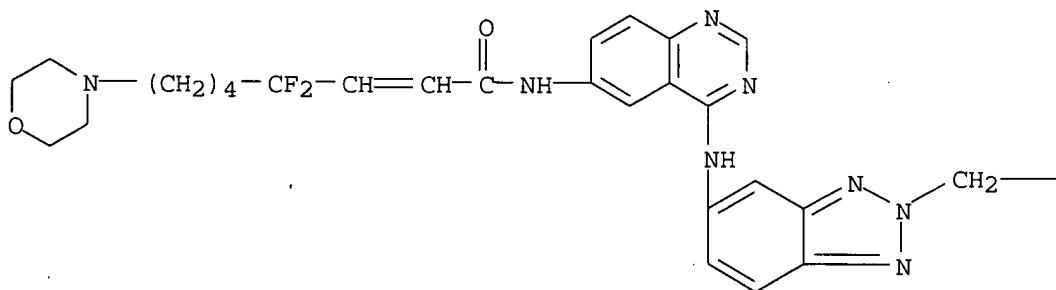


PAGE 1-B

—CH₂—Ph

RN 220578-07-4 CAPLUS
 CN 2-Octenamide, 4,4-difluoro-8-(4-morpholinyl)-N-[4-[[2-(phenylmethyl)-2H-benzotriazol-5-yl]amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

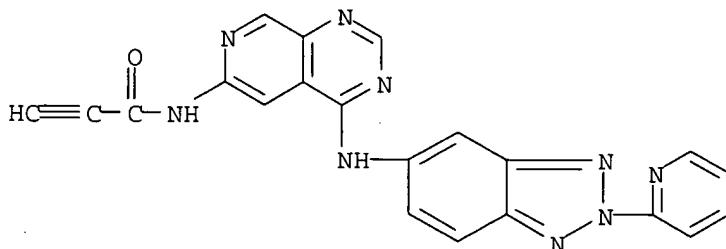
PAGE 1-A



PAGE 1-B

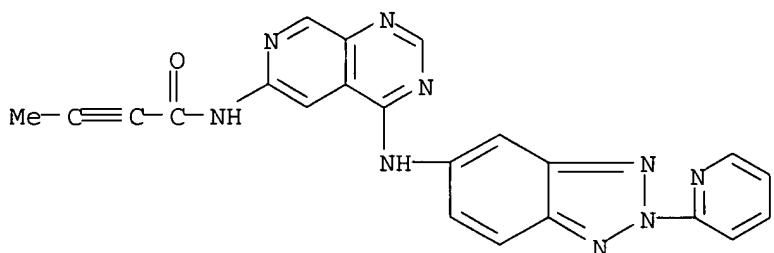
—Ph

RN 220578-12-1 CAPLUS
 CN 2-Propynamide, N-[4-[[2-(2-pyridinyl)-2H-benzotriazol-5-yl]amino]pyrido[3,4-d]pyrimidin-6-yl]- (9CI) (CA INDEX NAME)

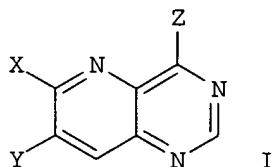


RN 220578-13-2 CAPLUS
 CN 2-Butynamide, N-[4-[[2-(2-pyridinyl)-2H-benzotriazol-5-yl]amino]pyrido[3,4-

d]pyrimidin-6-yl] - (9CI) (CA INDEX NAME)



GI



AB The title compds., e.g. I [X = DEF, Y = SR4, etc. ; or X = SR4, etc., and Y = DEF; D = O, etc.; E = CO, etc.; F = CR1(:C):C(R5)H, etc.; a proviso is given; R1 = H, halo, etc.; R5 = H, halo, perfluoroalkyl, etc.; Z = indoline moiety (generic structure given), etc.; R4 = H, alkyl, etc.], are prep'd. This invention also provides a method of treating cancer, restenosis, atherosclerosis, endometriosis, and psoriasis and a pharmaceutical compn. that comprises a compd. that is an irreversible inhibitor of tyrosine kinases. N-[4-(6-bromo-2,3-dihydroindol-1-yl)quinazolin-6-yl]acrylamide in vitro showed IC50 of 0.4 nM against epidermal growth factor receptor tyrosine kinase.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1999:22040 CAPLUS

DN 130:223557

TI Comparison of four fluorescent Edman reagents with benzofurazan structure for the detection of thiazolinone amino acid derivatives

AU Toriba, Akira; Santa, Tomofumi; Iida, Takayuki; Imai, Kazuhiro

CS Graduate School of Pharmaceutical Sciences, University of Tokyo, Tokyo, 113-0033, Japan

SO Analyst (Cambridge, United Kingdom) (1999), 124(1), 43-48
CODEN: ANALAO; ISSN: 0003-2654

PB Royal Society of Chemistry

DT Journal

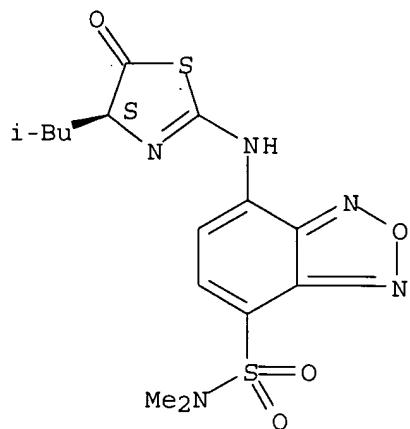
LA English

IT 180058-81-5P 201863-58-3P 221056-88-8P
221056-89-9PRL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(comparing four fluorescent, benzofurazan-based Edman reagents for the detection of thiazolinone derivs. of amino acids)

RN 180058-81-5 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[(4S)-4,5-dihydro-4-(2-methylpropyl)-5-oxo-2-thiazolyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

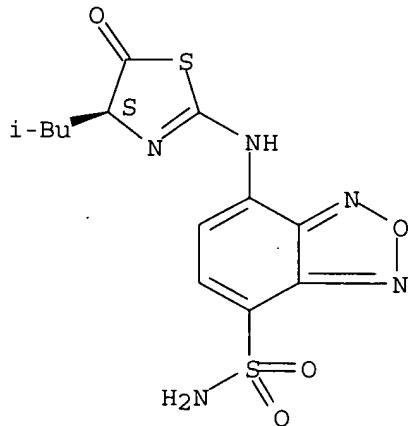
Absolute stereochemistry.



RN 201863-58-3 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[(4S)-4,5-dihydro-4-(2-methylpropyl)-5-oxo-2-thiazolyl]amino]- (9CI) (CA INDEX NAME)

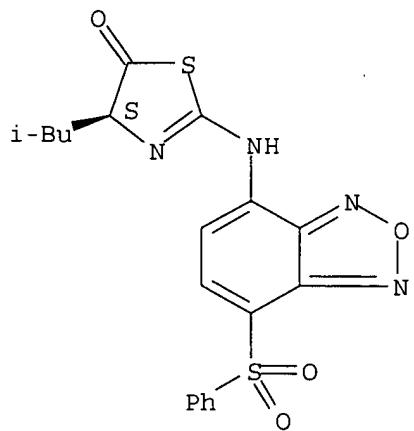
Absolute stereochemistry.



RN 221056-88-8 CAPLUS

CN 5(4H)-Thiazolone, 4-(2-methylpropyl)-2-[[7-(phenylsulfonyl)-2,1,3-benzoxadiazol-4-yl]amino]-, (4S)- (9CI) (CA INDEX NAME)

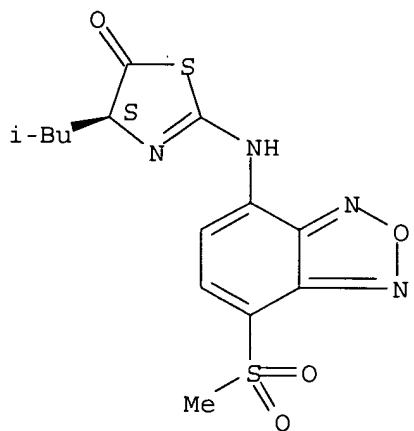
Absolute stereochemistry.



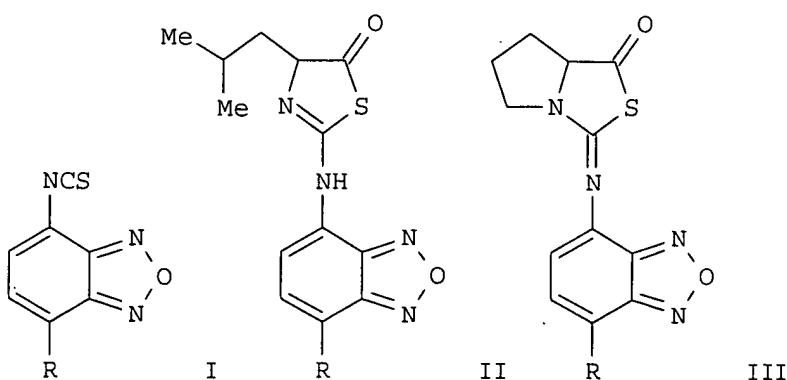
RN 221056-89-9 CAPLUS

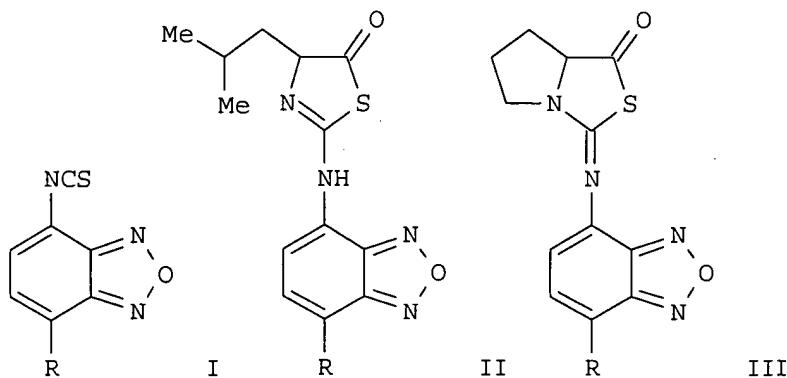
CN 5 (4H)-Thiazolone, 4-(2-methylpropyl)-2-[[7-(methylsulfonyl)-2,1,3-benzoxadiazol-4-yl]amino]-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI





AB Two newly synthesized, fluorescent, Edman reagents with the benzofurazan structures, PSBD-NCS, I (R = SO₂Ph), and MSBD-NCS, I (R = SO₂Me), were compared with ABD-NCS, I (R = SO₂NH₂), and DBD-NCS, I (R = SO₂NMe₂), for peptide and protein sequence anal. by the generation of fluorescent 2,1,3-benzoxadiazolylthiazolinone (TZ)-amino acids, such as II and III. The effects of the substituent group at the para position to the isothiocyanate moiety of these reagents on the rate of the cyclization/cleavage reaction, the repetitive yield and the fluorescence quantum yield and stability of TZ amino acids were investigated. MSBD-TZ-amino acids were most sensitively detected and the detection limit for MSBD-TZ-Pro, III (R = SO₂Me), was 7 fmol (S/N = 3). ABD-NCS afforded the highest repetitive yield in the sequencing anal. Fewer interfering peaks were obsd. in the chromatogram with DBD-NCS.

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 41 CAPLUS COPYRIGHT 2003 ACS
AN 1998:8188 CAPLUS
DN 128:89993
TI Treatment of textile fibers with UV absorbers
IN Isharani, Jayanti V.; Hung, William M.; Su, Kai C.
PA Ciba Specialty Chemicals Corp., USA
SO U.S., 9 pp., Cont.-in-part of U.S. Ser. No. 354,975, abandoned.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5700394	A	19971223	US 1995-372636	19950113
				US 1994-354975	19941213
	EP 717140	A2	19960619	EP 1995-810766	19951205
	EP 717140	A3	19960626		
	R: CH, DE, ES, FR, GB, IT, LI, PT				
				US 1994-354975	19941213
				US 1995-372636	19950113
JP	08226079	A2	19960903	JP 1995-321579	19951211
				US 1994-354975	19941213
				US 1995-372636	19950113
ZA	9510536	A	19960613	ZA 1995-10536	19951212
				US 1994-354975	19941213
AU	9540385	A1	19960620	AU 1995-40385	19951212

BR 9505755	A	19980106	US 1994-354975	19941213
			US 1995-372636	19950113
			BR 1995-5755	19951212
			US 1994-354975	19941213
			US 1995-372636	19950113

PATENT FAMILY INFORMATION:

FAN 1996:504134

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 717140	A2	19960619	EP 1995-810766	19951205
	EP 717140	A3	19960626		
	R: CH, DE, ES, FR, GB, IT, LI, PT			US 1994-354975	19941213
				US 1995-372636	19950113
	US 5700394	A	19971223	US 1995-372636	19950113
				US 1994-354975	19941213

OS MARPAT 128:89993

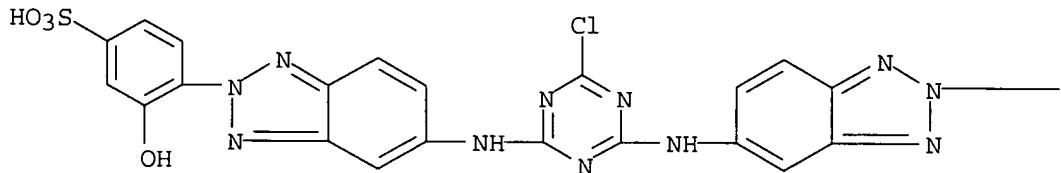
IT 179912-52-8

RL: NUU (Other use, unclassified); USES (Uses)
 (treatment of textile fibers with triazine group-contg. UV absorbers
 for clothing inhibiting penetration of UV radiation)

RN 179912-52-8 CAPLUS

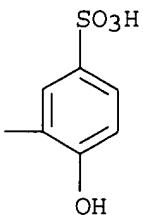
CN Benzenesulfonic acid, 4,4'-[{(6-chloro-1,3,5-triazine-2,4-diyl)bis(imino-2H-benzotriazole-5,2-diyl)]bis[3-hydroxy-, disodium salt (9CI) (CA INDEX NAME)}

PAGE 1-A

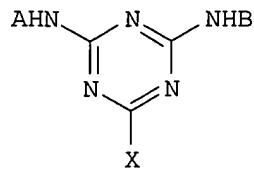


●2 Na

PAGE 1-B



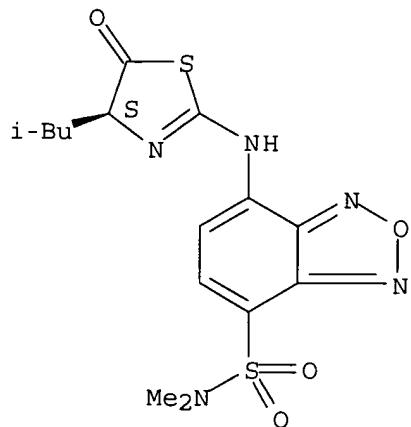
GI



AB A method for the treatment of a textile fiber to reduce the amt. of UV light passing through a fabric produced from said treated fiber comprises treating a textile fiber with 0.1 to 6.0% by wt. on the fiber, of a UV absorber I (A = radical of a UV absorber, B = radical of a UV absorber or a water-solubilizing group, X = F or Cl). Fabrics prep'd. from the treated fibers are useful in making clothing which provides protection against UV radiation for skin which is covered by the clothing, esp. lightweight summer clothing.

L4 ANSWER 14 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:806534 CAPLUS
 DN 128:128250
 TI Effect of the substituent group at the isothiocyanate moiety of Edman reagents on the racemization and fluorescence intensity of amino acids derivatized with 2,1,3-benzoxadiazolyl isothiocyanates
 AU Matsunaga, Hirokazu; Santa, Tomofumi; Iida, Takayuki; Fukushima, Takeshi; Homma, Hiroshi; Imai, Kazuhiro
 CS Faculty of Pharmaceutical Sciences, University of Tokyo, Tokyo, 113, Japan
 SO Analyst (Cambridge, United Kingdom) (1997), 122(9), 931-936
 CODEN: ANALAO; ISSN: 0003-2654
 PB Royal Society of Chemistry
 DT Journal
 LA English
 IT 180058-81-5P 201863-56-1P 201863-58-3P
 201863-61-8P 201863-64-1P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (effect of Edman reagent isothiocyanate substituent group on racemization and fluorescence intensity of amino acids derivatized with benzoxadiazolyl isothiocyanates)
 RN 180058-81-5 CAPLUS
 CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[[(4S)-4,5-dihydro-4-(2-methylpropyl)-5-oxo-2-thiazolyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

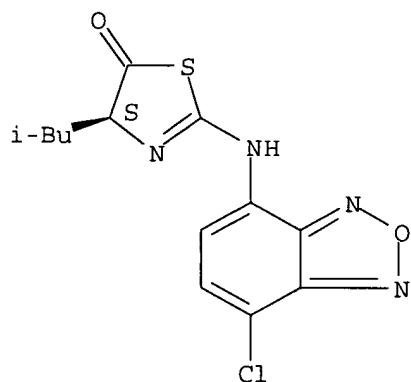
Absolute stereochemistry.



RN 201863-56-1 CAPLUS

CN 5(4H)-Thiazolone, 2-[(7-chloro-2,1,3-benzoxadiazol-4-yl)amino]-4-(2-methylpropyl)-, (S)- (9CI) (CA INDEX NAME)

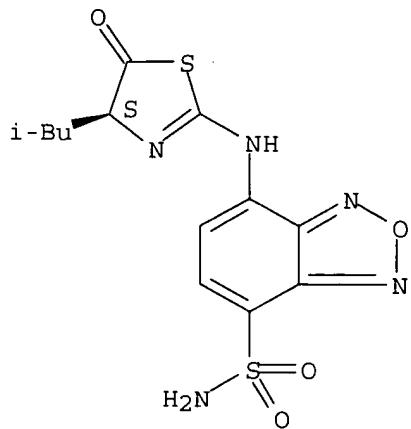
Absolute stereochemistry.



RN 201863-58-3 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[[(4S)-4,5-dihydro-4-(2-methylpropyl)-5-oxo-2-thiazolyl]amino]- (9CI) (CA INDEX NAME)

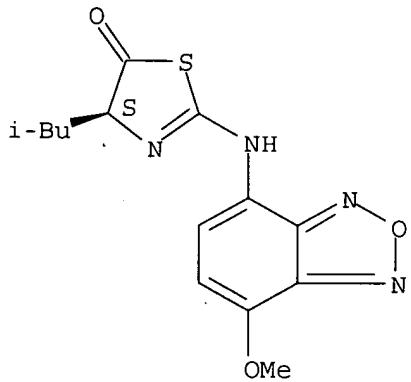
Absolute stereochemistry.



RN 201863-61-8 CAPLUS

CN 5 (4H) -Thiazolone, 2-[(7-methoxy-2,1,3-benzoxadiazol-4-yl)amino]-4- (2-methylpropyl)-, (S)- (9CI) (CA INDEX NAME)

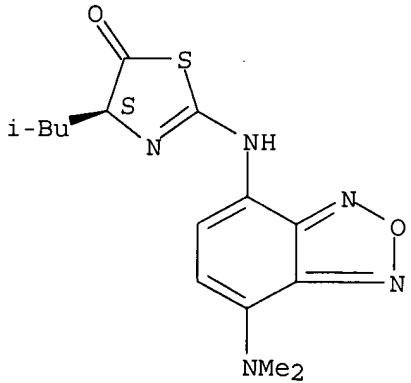
Absolute stereochemistry.



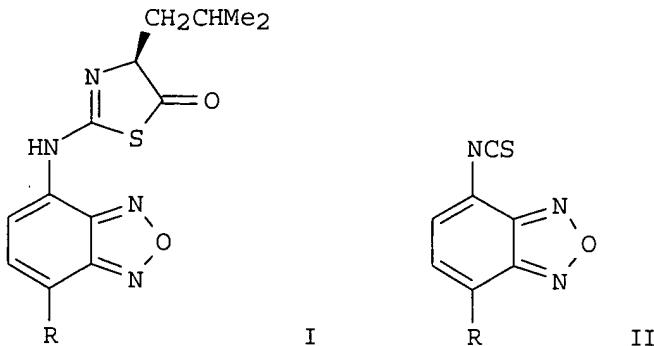
RN 201863-64-1 CAPLUS

CN 5 (4H) -Thiazolone, 2-[(7-(dimethylamino)-2,1,3-benzoxadiazol-4-yl)amino]-4- (2-methylpropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



AB It is shown that an electron-withdrawing or -donating group at the para-position of arom. isothiocyanate significantly affects the racemization of amino acid 2,1,3-benzoxadiazolylthiazolinone derivs. I (R = SO₂NMe₂, SO₂NH₂, Cl, OMe, NMe₂), prep'd. by derivatization of L-leucylglycine with newly synthesized benzoxadiazolyl isothiocyanates II in Edman sequence anal. A linear relationship between the logarithms of the I enantiomer ratio and the para-substituent consts. (.sigma.p) was obtained, and the D/L configuration of the amino acid residue was retained with an isothiocyanate contg. an electron-donating group at the para-position. The para-substitution effect on the racemization of phenylthiohydantoin (PTH) amino acids was also confirmed by several para-substituted phenylisothiocyanate (PITC) reagents, including nitro-PITC, chloro-PITC, PITC, methyl-PITC and methoxy-PITC. The relationship between the fluorescence intensity of I and .sigma.p was also demonstrated. When the isothiocyanate contg. an electron-donating group was used, the fluorescence intensity of I decreased while retaining the D/L configuration of the amino acid residues.

L4 ANSWER 15 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1997:618102 CAPLUS

DN 127:278208

TI Preparation of pyrimido[5,4-d]pyrimidines as tyrosine kinase signal transduction inhibitors

IN Himmelsbach, Frank; Dahmann, Georg; Von Ruden, Thomas; Metz, Thomas
PA Dr. Karl Thomae G.m.b.H., Germany

SO PCT Int. Appl., 151 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN, CNT 1

PATE

PATIENT NO. 777777777

BT WO 9733883 A1 10070812

APPLICATION NO. DATE

DATE

RI WO 8732882 A1 19870812 WO 1987 0P1253 19870812

9732882 A1 19970912 WO 1997-EP1058 19970303
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU,
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

DE 19608653	A1	19970911	DE 1996-19608653	19960306
CA 2248316	AA	19970912	DE 1996-19608653	19960306
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AU 9719252	A1	19970922	AU 1997-19252	19970303
AU 712072	B2	19991028		
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EP 885227	A1	19981223	EP 1997-907067	19970303
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
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			WO 1997-EP1058	19970303
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BR 9708004	A	19990727	BR 1997-8004	19970303
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			WO 1997-EP1058	19970303
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US 5977102	A	19991102	US 1997-812002	19970305
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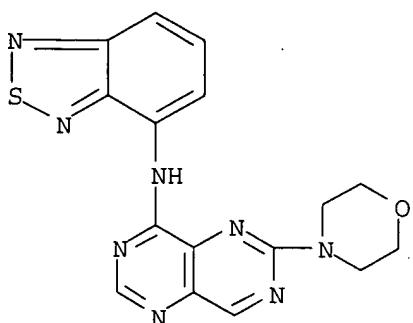
OS MARPAT 127:278208

IT **196511-12-3P**

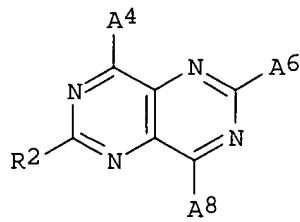
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimido[5,4-d]pyrimidines as tyrosine kinase signal transduction inhibitors)

RN 196511-12-3 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, N-2,1,3-benzothiadiazol-4-yl-6-(4-morpholinyl)- (9CI) (CA INDEX NAME)



GI



AB Title compds. [I; A2,A8 = H or alkyl; A4 = NRaRb or NRdRe; A6 = Rc or Rg; Ra,Rd = H or alkyl; Rb = (un)substituted Ph; Rc = azetidino, (un)substituted pyrrolidino, -piperidino, etc.; Re = 2-fluorenyl, (un)substituted phenylalkyl, heteroaryl, etc.; Rg = alkyl, (spiro)alkyleneimino, (di)(alkyl)amino, etc.] were prepd. Thus, 5-bromo-2-methylthiopyrimidine-4-carboxylic acid was aminated and the product cyclocondensed with HCONH₂ to give I (A2 = A8 = H) (II; A4 = OH, A6 = SMe) which was converted in 4 steps to II (A4 = 5-indolylamino, A6 = morpholino). Data for biochem. activity of I were given.

L4 ANSWER 16 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:204146 CAPLUS
 DN 126:199580
 TI Preparation of heterocyclyl-substituted quinazolines as protein tyrosine kinase inhibitors
 IN Cockerill, George Stuart; Carter, Malcolm Clive; McKeown, Stephen Karl; Vile, Sadie; Page, Martin John; Hudson, Alan Thomas; Barracough, Paul; Franzmann, Karl Witold
 PA Glaxo Group Limited, UK; Cockerill, George Stuart; Carter, Malcolm Clive; McKeown, Stephen Karl; Vile, Sadie; Page, Martin John; Hudson, Alan Thomas; Barracough, Paul; Franzmann, Karl Witold
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9703069	A1	19970130	WO 1996-EP3026	19960711
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA			GB 1995-14265	A 19950713
AU	9666139	A1	19970210	AU 1996-66139	19960711
				GB 1995-14265	A 19950713
				WO 1996-EP3026	W 19960711
EP	843671	A1	19980527	EP 1996-925710	19960711
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			GB 1995-14265	A 19950713
				WO 1996-EP3026	W 19960711
JP	11508906	T2	19990803	JP 1996-505503	19960711
				GB 1995-14265	A 19950713

WO 1996-EP3026 W 19960711
 ZA 1996-5935 19960712
 GB 1995-14265 A 19950713

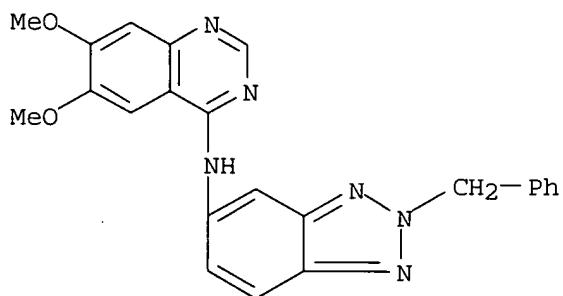
OS MARPAT 126:199580

IT 187667-55-6P

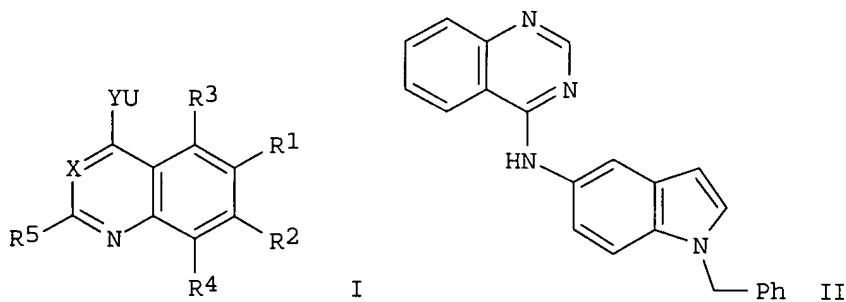
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of heterocyclyl-substituted quinazolines as protein tyrosine kinase inhibitors)

RN 187667-55-6 CAPLUS

CN 4-Quinazolinamine, 6,7-dimethoxy-N-[2-(phenylmethyl)-2H-benzotriazol-5-yl]-(9CI) (CA INDEX NAME)



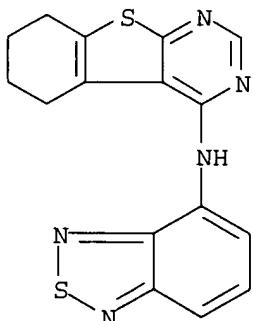
GI



AB The title compds. [I; X = N, CH; Y = OCH₂, CH₂O, NH, etc.; U = (un)substituted 5-10-membered mono or bicyclic ring system contg. one or more heteroatoms such as N, O, S; R₁-R₄ = H, halo, NH₂, etc.; R₅ = H, halo, CF₃, etc.], which are protein tyrosine kinase inhibitors, and useful in the treatment of psoriasis, fibrosis, atherosclerosis, restenosis, auto-immune disease, allergy, asthma, transplantation rejection, inflammation, thrombosis, nervous system diseases, and cancer, were prep'd. Thus, reaction of 4-chloroquinazoline with 5-amino-1-benzylindole in iPrOH afforded II.HCl which showed IC₅₀ of 0.26 .mu.M against the c-erbB-2 kinase.

L4 ANSWER 17 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:166792 CAPLUS

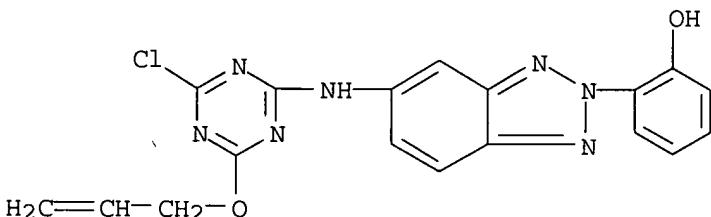
DN 126:233130
 TI Search for new antiparasitic agents 17. The new agent G-1697: synthesis
 and examination of its antiechinococcal activity
 AU Mikhailitsyn, F. S.; Kovalenko, F. P.; Kozyreva, N. P.; Dzhabarova, V. I.;
 Lebedeva, M. N.; Lychko, N. D.; Bulanova, T. Ye.
 CS Russia
 SO Meditsinskaya Parazitologiya i Parazitarnye Bolezni (1996), (3), 38-42
 CODEN: MPPBAB; ISSN: 0025-8326
 PB S-Info
 DT Journal
 LA Russian
 IT 188550-08-5P, G 1697
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation)
 (benzothiadiazol G-1697: synthesis and antiechinococcal activity)
 RN 188550-08-5 CAPLUS
 CN [1]Benzothieno[2,3-d]pyrimidin-4-amine, N-2,1,3-benzothiadiazol-4-yl-
 5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



AB The paper describes the synthesis of the new agent G-1697 which is
 4-[(benzo-2,1,3-thiadiazolyl-4)amino]-5,6,7,8-tetrahydrobenzothieno[2,3-
 d]pyrimidine and the results of testing its acute toxicity and
 antiparasitic activity on a model of *Echinococcus multilocularis* invasion
 at the larval stage in cotton rats. The max. nonlethal dose of G-1697 was
 4.0 g/kg for outbred mice of both sexes whose wt. was 14 - 16 g. Adult
 cotton rats (males) received the agent with their feed in increasing daily
 doses for 3 wk continuously on days 8 to 28 after infection. The daily
 dose of its active ingredient varied from 0.03 to 0.35 g/kg and averaged
 0.12 g/kg (the mean total dose per session was 2.47 g/kg). The baseline
 wt. of parasitic larvocysts (PL) per animal averaged 0.28 g at the
 baseline. In the treated and control rats sacrificed 34 days following
 infection, the mean mass of PL per animal was 0.95 and 7.51 g, resp. In
 the cotton rats treated with G-1697, the suppressed growth index calcd. by
 three parameters (moderate, max., and min. mass of PL in the animals of
 the comparable groups after treatment with regard to the similar baseline
 variables) was 90.8, 91.0 and 92.7, resp., vs. the controls. Among all PL
 found in each animal, its death was approx. 70 - 90% in the treated rats.

L4 ANSWER 18 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:51034 CAPLUS
 DN 126:131829
 TI On the copolymerization of styrene with some UV stabilizers based on
 triazinylaminobenzotriazole

AU Konstantinova, T.
 CS Organic Synthesis Dep., Univ. Chem. Technol. Metallurgy, Sofia, 1756,
 Bulg.
 SO Angewandte Makromolekulare Chemie (1996), 243, 51-55
 CODEN: ANMCBO; ISSN: 0003-3146
 PB Huethig & Wepf
 DT Journal
 LA English
 IT **153976-90-0P 153976-91-1P**
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (copolylmn. of styrene with UV stabilizers based on
 triazinylaminobenzotriazole)
 RN 153976-90-0 CAPLUS
 CN Phenol, 2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-
 benzotriazol-2-yl]-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
 CM 1
 CRN 153976-86-4
 CMF C18 H14 Cl N7 O2



CM 2

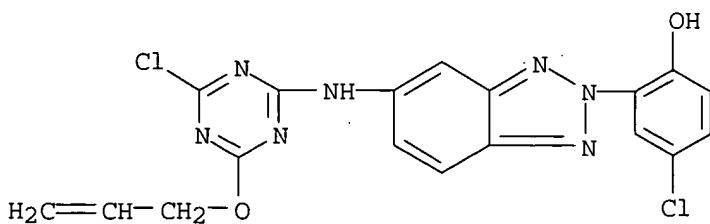
CRN 100-42-5
CMF C8 H8

$$\text{H}_2\text{C}=\text{CH-Ph}$$

RN 153976-91-1 CAPLUS
CN Phenol, 4-chloro-2-[5-[[4-chloro-6-(2-propenyl)oxy]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl], polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 153976-87-5
CMF C18 H13 C12 N7 O2



CM 2

CRN 100-42-5

CMF C8 H8

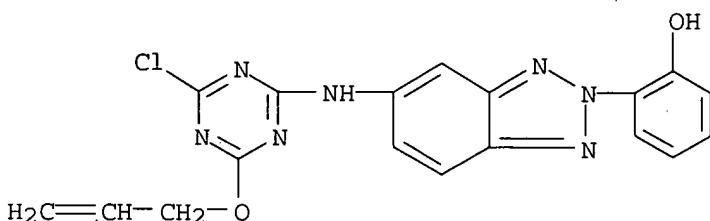
H₂C=CH-Ph

IT 153976-86-4 153976-87-5

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
 (kinetics of copolyrn. of styrene with UV stabilizers based on
 triazinylaminobenzotriazole)

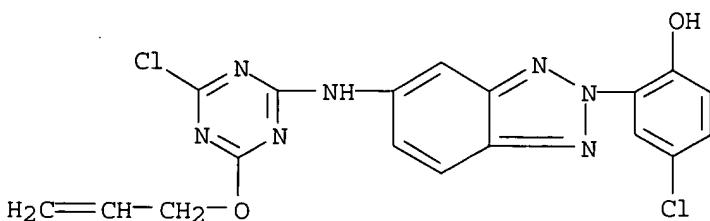
RN 153976-86-4 CAPLUS

CN Phenol, 2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]-(9CI) (CA INDEX NAME)



RN 153976-87-5 CAPLUS

CN Phenol, 4-chloro-2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]-(9CI) (CA INDEX NAME)

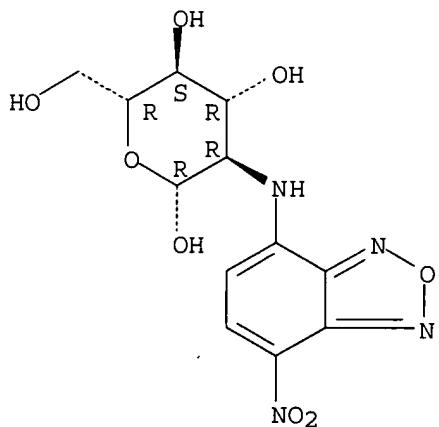


AB The copolyrn. of styrene with 3 polymerizable UV stabilizers based on triazinylaminobenzotriazole was investigated. The relationship between the polymn. rate and the character of the UV stabilizer was established. The general conclusion was that the presence of the UV stabilizer retarded

the polymn. of styrene, without significant effect on the mol. wt. and the thermostability of the copolymers thus obtained.

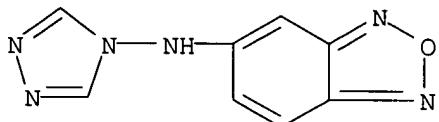
L4 ANSWER 19 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:736486 CAPLUS
 DN 126:72206
 TI Intracellular fate of 2-NBDG, a fluorescent probe for glucose uptake activity, in *Escherichia coli* cells
 AU Yoshioka, Kazuaki; Saito, Mikako; Oh, Ki-Bong; Nemoto, Yasuyuki; Matsuoka, Hideaki; Natsume, Masahiro; Abe, Hiroshi
 CS Department of Biotechnology, Tokyo University of Agriculture and Technology, Tokyo, 184, Japan
 SO Bioscience, Biotechnology, and Biochemistry (1996), 60(11), 1899-1901
 CODEN: BBBIEJ; ISSN: 0916-8451
 PB Japan Society for Bioscience, Biotechnology, and Agrochemistry
 DT Journal
 LA English
 IT 174844-42-9
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (intracellular fate of 2-NBDG, a fluorescent probe for glucose uptake activity, in *Escherichia coli* cells)
 RN 174844-42-9 CAPLUS
 CN .beta.-D-Glucopyranose, 2-deoxy-2-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A fluorescent deriv. of D-glucose, 2-NBDG, which was previously developed for the evaluation of glucose uptake activity by living cells, was used on *Escherichia coli* cells and its fate after incorporation in the cells was investigated. 2-NBDG was converted to another fluorescent deriv. (2-NGDG metabolite) immediately after it was taken by *E. coli* cells. This 2-NBDG was then decompd. to non-fluorescent forms. 2-NBDG metabolite was decompd. into the original 2-NBDG by G6Pase with concurrent liberation of inorg. phosphate. Furthermore, FAB/MS anal. showed that its mol. wt. was 420, the same value as that of 2-NBDG 6-phosphate. These indicate 2-NBDG metabolite should be 2-NBDG 6-phosphate. Based on these results, the feasibility of 2-NBDG as a fluorescent non-toxic probe for glucose uptake activity and its application to viability assessment of various living systems are discussed.

L4 ANSWER 20 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:644883 CAPLUS
 DN 125:321389
 TI Studies on aromatase inhibitors. I. Synthesis and biological evaluation of 4-amino-4H-1,2,4-triazole derivatives
 AU Okada, Minoru; Yoden, Toru; Kawaminami, Eiji; Shimada, Yoshiaki; Kudoh, Masafumi; Isomura, Yasuo; Shikama, Hisataka; Fujikura, Takashi
 CS Inst. Drug Discovery Res., Yamanouchi Pharmaceutical Co., Ltd., Tsukuba, 305, Japan
 SO Chemical & Pharmaceutical Bulletin (1996), 44(10), 1871-1879
 CODEN: CPBTAL; ISSN: 0009-2363
 PB Pharmaceutical Society of Japan
 DT Journal
 LA English
 IT **148869-75-4**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (4-amino-4H-1,2,4-triazole derivs. as aromatase inhibitors)
 RN 148869-75-4 CAPLUS
 CN 2,1,3-Benzoxadiazol-5-amine, N-4H-1,2,4-triazol-4-yl- (9CI) (CA INDEX NAME)



AB Various 4-N-substituted amino-4H-1,2,4-triazole derivs. were synthesized and evaluated for aromatase-inhibitory activity (in vitro) and for pregnant mare serum gonadotropin (PMSG)-induced estrogen synthesis-inhibitory activity (in vivo). The 4-(4-cyanophenyl) amino deriv. and 4-(4-nitrophenyl)amino deriv., each processing a strong electron-withdrawing group on the Ph moiety, showed potent aromatase-inhibitory activity. Structure-activity relationship studies indicated that 4-[(4-bromobenzyl)(4-cyanophenyl)amino]-4H-1,2,4-triazole (YM511) is highly potent aromatase inhibitor with IC₅₀ values of 0.4 and 0.12 nM in in vitro expts. using rat ovary and human placenta, resp., and an in vivo ED₅₀ of 0.002 mg/kg in rats on oral administration. YM511 was also a weak inhibitor of other steroid hormone synthesis enzymes. These data suggest that YM511 is a highly selective aromatase inhibitor and may be a useful agent for the treatment of estrogen-dependent diseases such as breast cancer.

L4 ANSWER 21 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:618910 CAPLUS
 DN 126:18845
 TI Rapid Microscale Synthesis, a New Method for Lead Optimization Using Robotics and Solution Phase Chemistry: Application to the Synthesis and Optimization of Corticotropin Releasing Factor1 Receptor Antagonists
 AU Whitten, Jeffrey P.; Xie, Yun Feng; Erickson, Philip E.; Webb, Thomas R.; De Souza, Errol B.; Grigoriadis, Dimitri E.; McCarthy, James R.
 CS Neurocrine Biosciences, San Diego, CA, 92121, USA
 SO Journal of Medicinal Chemistry (1996), 39(22), 4354-4357
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society

DT Journal

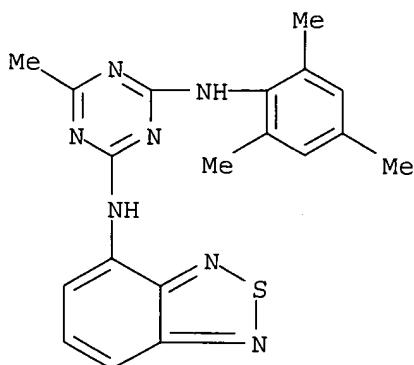
LA English

IT 184025-02-3P

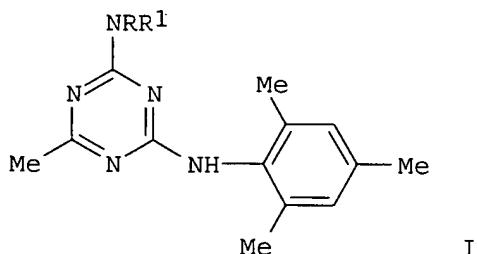
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. by rapid microscale synthesis using robotic driven soln. phase
 synthesis)

RN 184025-02-3 CAPLUS

CN 1,3,5-Triazine-2,4-diamine, N-2,1,3-benzothiadiazol-4-yl-6-methyl-N'-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



GI



AB Potent ACTH releasing factor 1 receptor antagonists, illustrated by I ($R = Pr$, $R1 = cyclopropylmethyl$) ($Ki = 57$ nM), were obtained by synthesizing over 350 analogs of a lead mol. I ($R = Me$, $R1 = phenethyl$) ($Ki = 2,100$ nM) with a new robotics driven soln. phase method called Rapid Microscale Synthesis (RMS). RMS provides a convenient method for the synthesis of from 25 to several hundred analogs of a biol. active mol. in a few days to a few weeks on a modified version of a com. available robot. Reaction conditions were programmed on a windows based program for a desired synthetic sequence. The robot can run several (10 to 25) multistep syntheses in parallel; addn. of reagents, extractive work ups and purity evaluation of products were carried out in series. Multimilligram quantities of products were synthesized, purity evaluated and structures confirmed. Known quantities of products were evaluated for biol. activity. Thus RMS provides a robotics driven soln. phase synthesis method as an alternative to robotics driven solid phase synthesis to prep.

analogs of a biol. active mol. and increase biol. activity of new analogs in a relatively short period of time.

L4 ANSWER 22 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:504134 CAPLUS

DN 125:145014

TI Treatment of textile fibers to reduce UV transmittance

IN Isharani, Jayanti Veljee; Hung, William Mo-Wei; Su, Kai Chiang

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 717140	A2	19960619	EP 1995-810766	19951205
	EP 717140	A3	19960626		
	R: CH, DE, ES, FR, GB, IT, LI, PT				
				US 1994-354975	19941213
				US 1995-372636	19950113
	US 5700394	A	19971223	US 1995-372636	19950113
				US 1994-354975	19941213

PATENT FAMILY INFORMATION:

FAN 1998:8188

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5700394	A	19971223	US 1995-372636	19950113
				US 1994-354975	19941213
	EP 717140	A2	19960619	EP 1995-810766	19951205
	EP 717140	A3	19960626		
	R: CH, DE, ES, FR, GB, IT, LI, PT				
				US 1994-354975	19941213
				US 1995-372636	19950113
	JP 08226079	A2	19960903	JP 1995-321579	19951211
				US 1994-354975	19941213
				US 1995-372636	19950113
	ZA 9510536	A	19960613	ZA 1995-10536	19951212
				US 1994-354975	19941213
	AU 9540385	A1	19960620	AU 1995-40385	19951212
				US 1994-354975	19941213
	BR 9505755	A	19980106	US 1995-372636	19950113
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OS MARPAT 125:145014

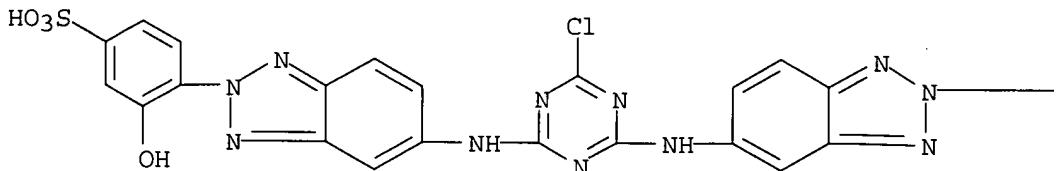
IT 179912-52-8

RL: NUU (Other use, unclassified); USES (Uses)
 (treatment of textile fibers to reduce UV transmittance)

RN 179912-52-8 CAPLUS

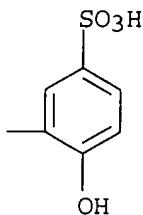
CN Benzenesulfonic acid, 4,4'-(6-chloro-1,3,5-triazine-2,4-diyl)bis(imino-2H-benzotriazole-5,2-diyl)]bis[3-hydroxy-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

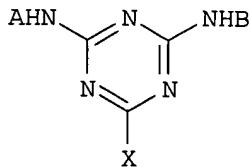


●2 Na

PAGE 1-B



GI



I

AB The title method comprises treating a textile fiber with 0.1-6.0% of UV absorber I, wherein A is the radical of a UV absorber, B is the radical of a UV absorber or is a water-solubilizing group and X is F or Cl. Fabrics prep'd. from the treated fibers are useful in making clothing which provides protection against UV radiation for skin which is covered by the clothing, esp. lightweight summer clothing.

L4 ANSWER 23 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:455876 CAPLUS
 DN 125:143248

TI Proton: A Major Factor for the Racemization and the Dehydration at the Cyclization/Cleavage Stage in the Edman Sequencing Method
 AU Matsunaga, Hirokazu; Iida, Takayuki; Santa, Tomofumi; Fukushima, Takeshi; Homma, Hiroshi; Imai, Kazuhiro
 CS Faculty of Pharmaceutical Sciences, University of Tokyo, Tokyo, 113, Japan
 SO Analytical Chemistry (1996), 68(17), 2850-2856
 CODEN: ANCHAM; ISSN: 0003-2700
 PB American Chemical Society
 DT Journal

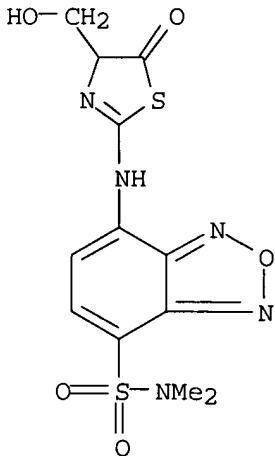
LA English

IT 180058-87-1P 180058-88-2P

RL: ANT (Analyte); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent)
 (protic acids in racemization and dehydration of amino acid residues during Edman sequencing)

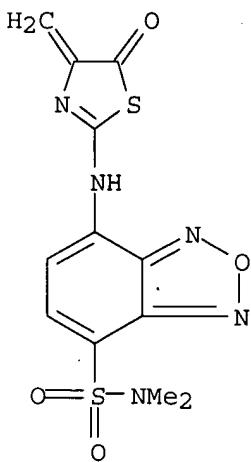
RN 180058-87-1 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-4-(hydroxymethyl)-5-oxo-2-thiazolyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 180058-88-2 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[(4,5-dihydro-4-methylene-5-oxo-2-thiazolyl)amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



IT 180058-79-1P 180058-80-4P 180058-81-5P

180058-82-6P 180058-83-7P 180058-84-8P

180058-85-9P 180058-86-0P 180058-89-3P

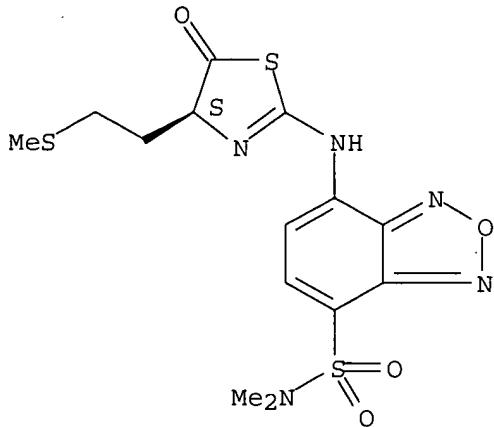
RL: ANT (Analyte); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(protic acids in racemization and dehydration of amino acid residues during Edman sequencing)

RN 180058-79-1 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-4-[2-(methylthio)ethyl]-5-oxo-2-thiazolyl]amino]-N,N-dimethyl-, (S)- (9CI) (CA INDEX NAME)

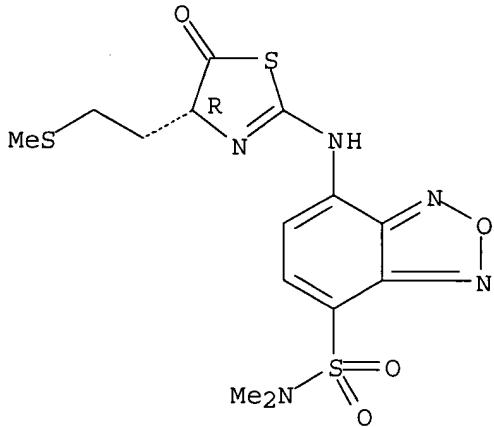
Absolute stereochemistry.



RN 180058-80-4 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-4-[2-(methylthio)ethyl]-5-oxo-2-thiazolyl]amino]-N,N-dimethyl-, (R)- (9CI) (CA INDEX NAME)

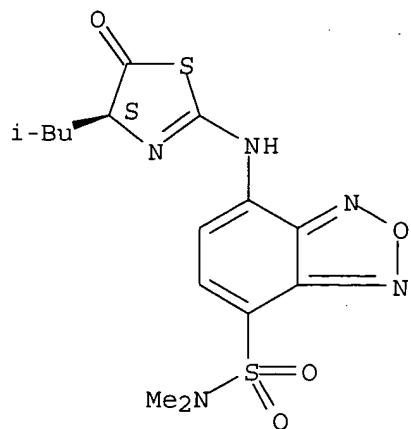
Absolute stereochemistry.



RN 180058-81-5 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4S)-4,5-dihydro-4-(2-methylpropyl)-5-oxo-2-thiazolyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

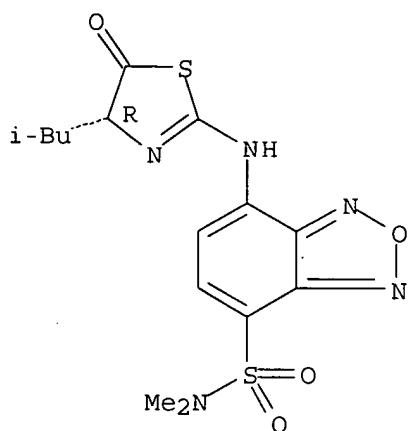
Absolute stereochemistry.



RN 180058-82-6 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-4-(2-methylpropyl)-5-oxo-2-thiazolyl]amino]-N,N-dimethyl-, (R)- (9CI) (CA INDEX NAME)

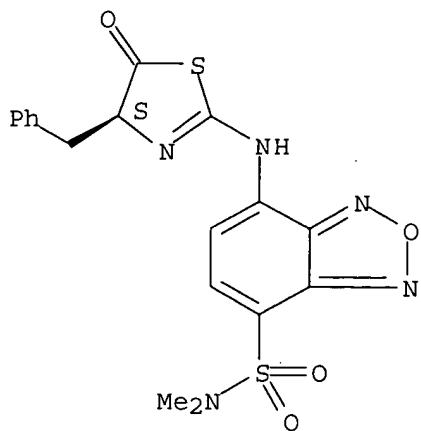
Absolute stereochemistry.



RN 180058-83-7 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-5-oxo-4-(phenylmethyl)-2-thiazolyl]amino]-N,N-dimethyl-, (S)- (9CI) (CA INDEX NAME)

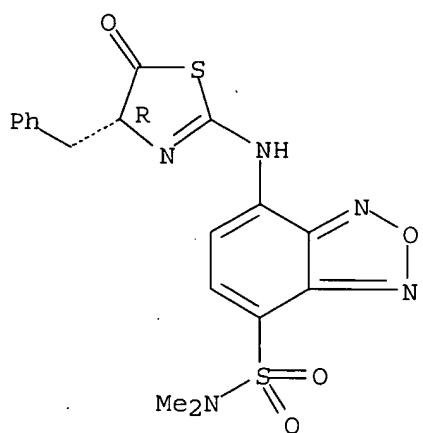
Absolute stereochemistry.



RN 180058-84-8 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-5-oxo-4-(phenylmethyl)-2-thiazolyl]amino]-N,N-dimethyl-, (R)- (9CI) (CA INDEX NAME)

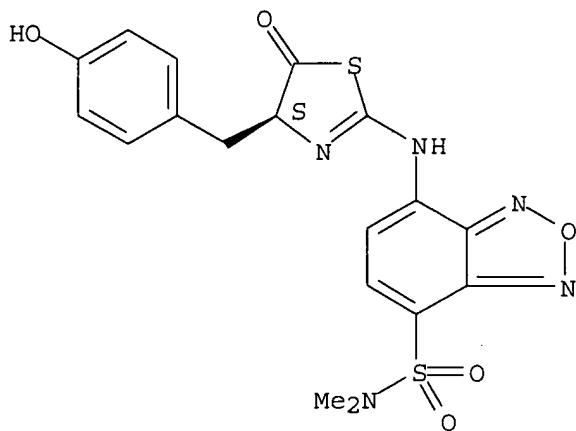
Absolute stereochemistry.



RN 180058-85-9 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-4-[(4-hydroxyphenyl)methyl]-5-oxo-2-thiazolyl]amino]-N,N-dimethyl-, (S)- (9CI) (CA INDEX NAME)

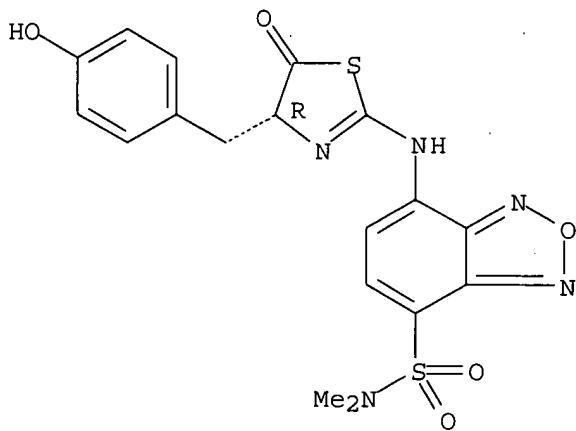
Absolute stereochemistry.



RN 180058-86-0 CAPLUS

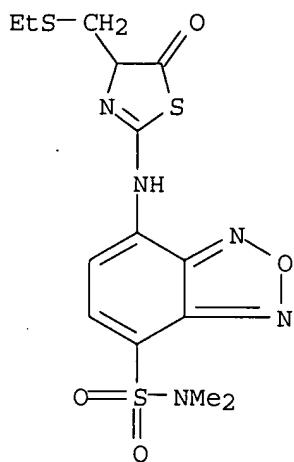
CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4,5-dihydro-4-[(4-hydroxyphenyl)methyl]-5-oxo-2-thiazolyl]amino]-N,N-dimethyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

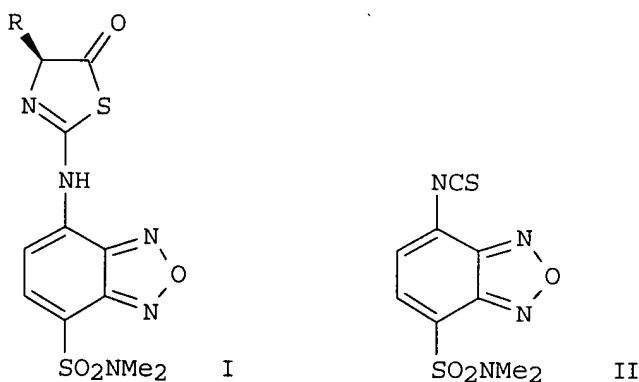


RN 180058-89-3 CAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonamide, 7-[[4-[(ethylthio)methyl]-4,5-dihydro-5-oxo-2-thiazolyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



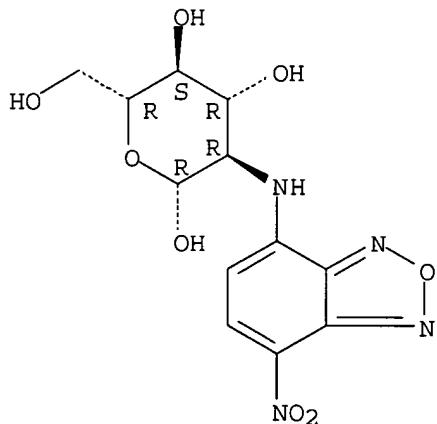
GI



AB The racemization of liberated benzoxadiazolylthiazolinone (DBD-TZ) amino acids I (R = amino acid side chain) during the cyclization/cleavage reaction with trifluoroacetic acid (TFA) in the Edman sequencing procedure has been carefully investigated, and evidence is presented to show conclusively that the racemization is caused by the replacement of a hydrogen atom by TFA. The fluorescent reagent II (DBD-NCS) was used for amino acid sequencing, and DBD-TZ amino acids were used for sequence and configuration detn. DBD-thiocarbamoylated peptides were cyclized and cleaved with deuterated TFA, and the protonated pseudomol. ions (M - d1 + H)+ of DBD-TZ amino acids were detected by LC/MS. Furthermore, in the reaction kinetics study, the authors confirmed that the replacement reaction by TFA correlated sufficiently with the racemization of DBD-TZ amino acids. For the purpose of retaining D/L-amino acid configuration in sequencing, an aprotic acid, i.e, the Lewis acid BF3, was used for the cyclization/cleavage reaction. When BF3 was used, the derivatized DBD-TZ amino acid was scarcely racemized under cyclization/cleavage conditions. Using this method, amino acid sequencing of H-D-Phe-Met-Arg-Phe-NH2 could be performed, retaining the D/L-configuration of the amino acid residues.

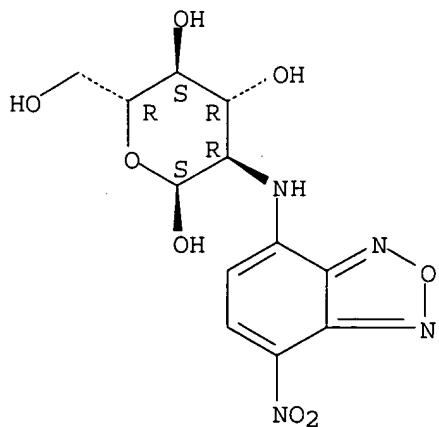
L4 ANSWER 24 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:131258 CAPLUS
 DN 124:225510
 TI A novel fluorescent derivative of glucose applicable to the assessment of glucose uptake activity of *Escherichia coli*
 AU Yoshioka, Kazuaki; Takahashi, Hirokazu; Homma, Tomoo; Saito, Mikako; Oh, Ki-Bong; Nemoto, Yasushi; Matsuoka, Hideaki
 CS Department of Biotechnology, Tokyo University of Agriculture and Technology, Koganei, Tokyo, 184, Japan
 SO Biochimica et Biophysica Acta (1996), 1289(1), 5-9
 CODEN: BBACAO; ISSN: 0006-3002
 PB Elsevier
 DT Journal
 LA English
 IT 174844-42-9P 174844-43-0P
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (fluorescent deriv. of glucose for detn. of glucose uptake activity of *Escherichia coli*)
 RN 174844-42-9 CAPLUS
 CN .alpha.-D-Glucopyranose, 2-deoxy-2-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 174844-43-0 CAPLUS
 CN .alpha.-D-Glucopyranose, 2-deoxy-2-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]- (9CI) (CA INDEX NAME)

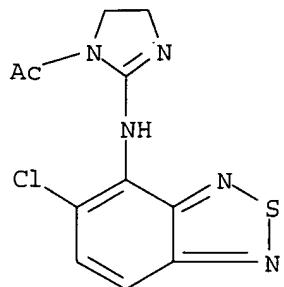
Absolute stereochemistry.



AB A novel fluorescent deriv. of glucose was synthesized by reacting D-glucosamine and NBD-Cl. The TLC anal. of the reaction mixt. showed the generation of a single spot with intense fluorescence ($\lambda_{\text{Ex}} = 475$ nm, $\lambda_{\text{Em}} = 550$ nm). The obtained novel fluorescent product, which was identified as 2-(N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)amino)-2-deoxyglucose (2-NBDG) by 1H-NMR and FAB-MS spectrometries, was applied to the assessment of the glucose uptake activity of *Escherichia coli* B. The 2-NBDG accumulated in living cells and not in dead cells. The uptake of 2-NBDG was competitively inhibited by D-glucose and not by L-glucose, which suggested the involvement of the glucose transporting system in the uptake of 2-NBDG. The 2-NBDG taken into the cytoplasm of *E. coli* cells was supposedly converted into another deriv. in the glucose metabolic pathway.

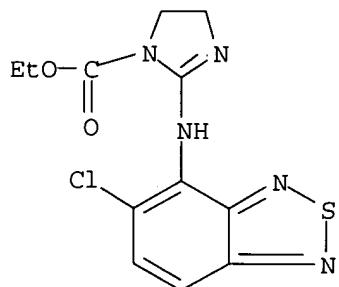
L4 ANSWER 25 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1996:117837 CAPLUS
 DN 124:176111
 TI Preparation of tizanidine
 IN Ishikura, Masatoshi; Ueda, Yutaka; Kobayashi, Kazuhiko
 PA Toyo Pharma Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07267950	A2	19951017	JP 1994-83922	19940330
				JP 1994-83922	19940330
OS	CASREACT 124:176111; MARPAT 124:176111				
IT	173532-15-5P 173532-16-6P 173590-89-1P				
	RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of tizanidine)				
RN	173532-15-5 CAPLUS				
CN	1H-Imidazol-2-amine, 1-acetyl-N-(5-chloro-2,1,3-benzothiadiazol-4-yl)-4,5-dihydro- (9CI) (CA INDEX NAME)				



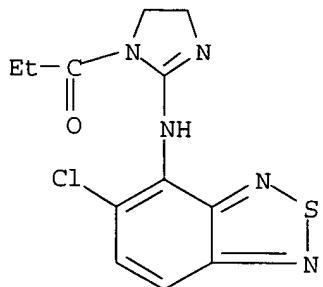
RN 173532-16-6 CAPLUS

CN 1H-Imidazole-1-carboxylic acid, 2-[(5-chloro-2,1,3-benzothiadiazol-4-yl)amino]-4,5-dihydro-, ethyl ester (9CI) (CA INDEX NAME)

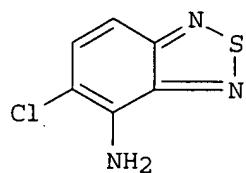


RN 173590-89-1 CAPLUS

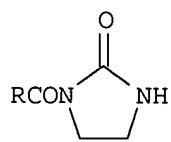
CN 1H-Imidazol-2-amine, N-(5-chloro-2,1,3-benzothiadiazol-4-yl)-4,5-dihydro-1-(1-oxopropyl)- (9CI) (CA INDEX NAME)



GI



II



III

AB Tizanidine (I) is prep'd. from benzothiazole deriv. II and imidazolidinone deriv. III [R = alkyl, etc.]. Thus, a mixt. of II and III [R = methyl] in POCl_3 was stirred at 60.degree. for 48 h; after evapn. of POCl_3 , MeOH was added, and the resulting mixt. was refluxed for 3 h to give, after workup, 83% I.

L4 ANSWER 26 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1996:115121 CAPLUS

DN 124:146172

TI Preparation of tizanidine

IN Imai, Eiji; Nakaoku, Shozo; Fushimi, Koshiro

PA Taiyo Pharma Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07258251	A2	19951009	JP 1994-71309	19940317
				JP 1994-71309	19940317

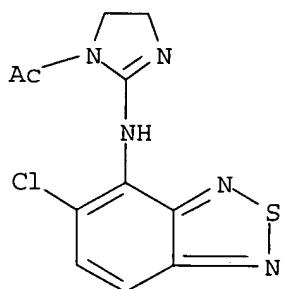
OS CASREACT 124:146172; MARPAT 124:146172

IT 173532-15-5P 173532-16-6P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of tizanidine)

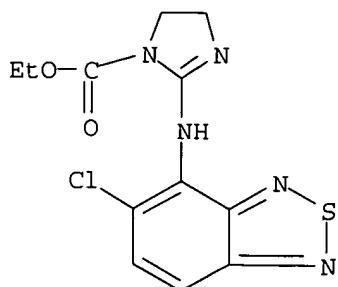
RN 173532-15-5 CAPLUS

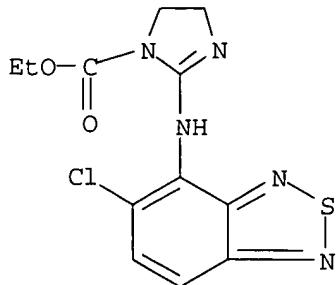
CN 1H-Imidazol-2-amine, 1-acetyl-N-(5-chloro-2,1,3-benzothiadiazol-4-yl)-4,5-dihydro- (9CI) (CA INDEX NAME)



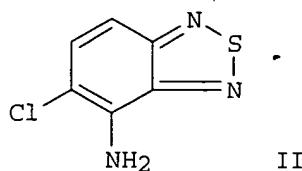
RN 173532-16-6 CAPLUS

CN 1H-Imidazole-1-carboxylic acid, 2-[(5-chloro-2,1,3-benzothiadiazol-4-yl)amino]-4,5-dihydro-, ethyl ester (9CI) (CA INDEX NAME)





GI



II

AB Tizanidine (I) is prep'd. from benzothiadiazole II and imidazolidone. Thus, II was added to a mixt. of 1-acetyl-2-imidazolidone and POC13. The reaction mixt. was stirred at 60.degree. for 10 h to give, after workup, a product which was treated with a refluxing mixt. of aq. NaOH and ethanol to give I.

L4 ANSWER 27 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:654981 CAPLUS
 DN 123:35264
 TI Barbituric acid derivatives as reactive azo dyes and process and intermediates for their preparation
 IN Ehrenberg, Stefan; Engel, Aloys; Henk, Hermann
 PA Bayer A.-G., Germany
 SO Ger. Offen., 46 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

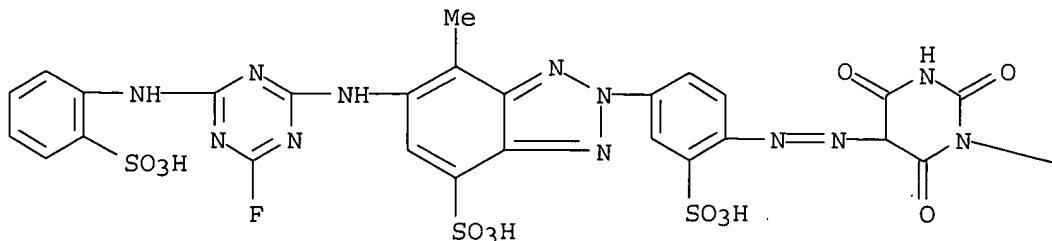
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4329421	A1	19950302	DE 1993-4329421	19930901
	EP 641838	A1	19950308	EP 1994-112968	19940819
	EP 641838	B1	19991110		
	R: CH, DE, FR, GB, LI			DE 1993-4329421	19930901
	US 5502174	A	19960326	US 1994-296308	19940825
				DE 1993-4329421	19930901
	JP 07102180	A2	19950418	JP 1994-229048	19940831
				DE 1993-4329421	19930901
OS	MARPAT 123:35264				
IT	164463-43-8P 164463-45-0P 164463-46-1P 164463-47-2P				
	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				

(yellow; prepn. of reactive azo dyes for cotton)

RN 164463-43-8 CAPLUS

CN 2H-Benzotriazole-4-sulfonic acid, 6-[[4-fluoro-6-[(2-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-2-[4-[[hexahydro-2,4,6-trioxo-1-(2-sulfoethyl)-5-pyrimidinyl]azo]-3-sulfophenyl]-7-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A



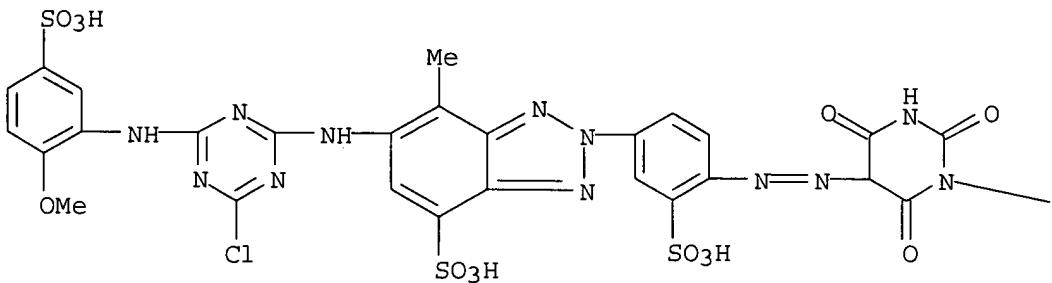
PAGE 1-B

—CH₂—CH₂—SO₃H

RN 164463-45-0 CAPLUS

CN 2H-Benzotriazole-4-sulfonic acid, 6-[[4-chloro-6-[(2-methoxy-5-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-2-[4-[[hexahydro-2,4,6-trioxo-1-(2-sulfoethyl)-5-pyrimidinyl]azo]-3-sulfophenyl]-7-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A



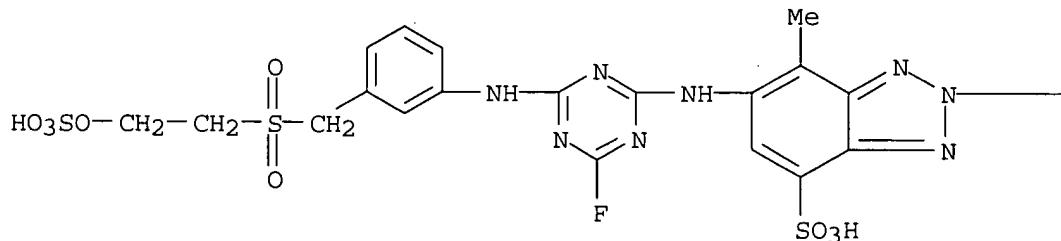
PAGE 1-B

—CH₂—CH₂—SO₃H

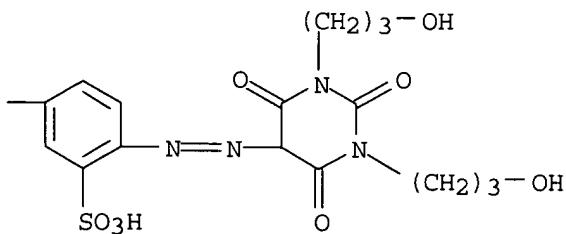
RN 164463-46-1 CAPLUS

CN 2H-Benzotriazole-4-sulfonic acid, 2-[4-[[1,3-bis(3-hydroxypropyl)hexahydro-2,4,6-trioxo-5-pyrimidinyl]azo]-3-sulfophenyl]-6-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]sulfonyl]methyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-7-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A



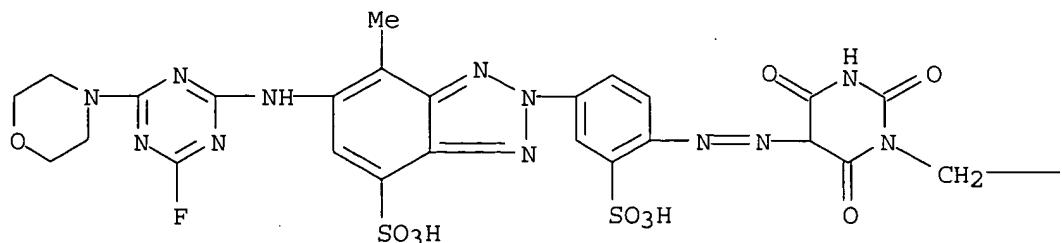
PAGE 1-B



RN 164463-47-2 CAPLUS

CN 2H-Benzotriazole-4-sulfonic acid, 6-[[4-fluoro-6-(4-morpholinyl)-1,3,5-triazin-2-yl]amino]-7-methyl-2-[3-sulfo-4-[[hexahydro-2,4,6-trioxo-1-(2-sulfoethyl)-5-pyrimidinyl]azolphenyl]- (9CI) (CA INDEX NAME)

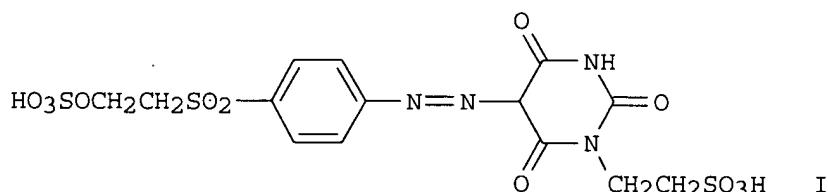
PAGE 1-A



PAGE 1-B

—CH₂—SO₃H

GI



AB The dyes, with an azo linkage to the 5-position of a barbituric acid ring, show improved solv. and properties facilitating their synthesis. Thus, 4-HO₃SOCH₂CH₂SO₂C₆H₄NH₂ was diazotized and coupled with 1-(2-sulfoethyl)barbituric acid at pH 5-7 to give I, a greenish yellow dye for cotton.

L4 ANSWER 28 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:332746 CAPLUS

DN 122:110194

TI Synthesis of N,N'-bis(2,4-dinitrobenzofuroxanyl)-3,5-dinitro-2,6-diaminopyridine

AU Wang, NaiXing; Chen, Boren; Ou, Yuxiang

CS Dep. Chem. Eng., Beijing Inst. Technol., Beijing, 100081, Peop. Rep. China
 SO Propellants, Explosives, Pyrotechnics (1994), 19(6), 300-1
 CODEN: PEPYD5; ISSN: 0721-3115

PB VCH

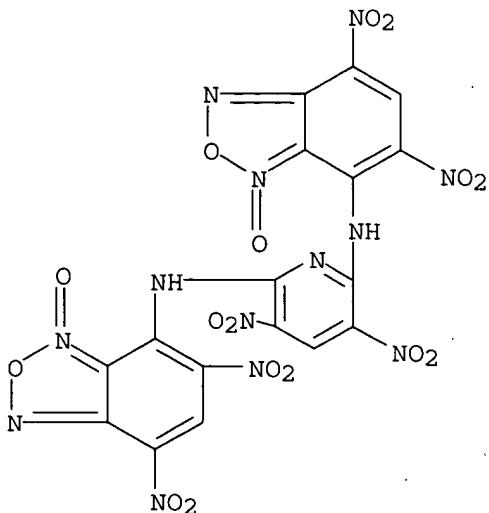
DT Journal

LA English

IT 157143-51-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(formation and properties of)
 RN 157143-51-6 CAPLUS
 CN 2,6-Pyridinediamine, N,N'-bis(5,7-dinitro-3-oxido-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro- (9CI) (CA INDEX NAME)



AB N,N'-Bis(2,4-dinitrobenzofuroxanyl)-3,5-dinitro-2,6-diaminopyridine (I) was synthesized from 2,6-diaminopyridine and trinitrodichlorobenzene in 4 steps. The structure of I was detd. by elemental anal., IR, 1H-NMR, and mass-spectral techniques.

L4 ANSWER 29 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:23238 CAPLUS
 DN 122:31545
 TI Preparation of aminoquinazolines useful in the treatment of cancer
 IN Barker, Andrew John; Brown, Dearg Sutherland
 PA Zeneca, UK
 SO Eur. Pat. Appl., 39 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 602851	A1	19940622	EP 1993-309680	19931203
	EP 602851	B1	19961009		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE GB 1992-25765 A 19921210 GB 1993-10248 A 19930518				
	AU 9350728	A1	19940623	AU 1993-50728	19931116
	AU 664496	B2	19951116		
				GB 1992-25765 A 19921210 GB 1993-10248 A 19930518	
	ZA 9308594	A	19940610	ZA 1993-8594	19931117
	CA 2103383	AA	19940611	GB 1992-25765 A 19921210 CA 1993-2103383 19931118 GB 1992-25765 A 19921210 GB 1993-10248 A 19930518	

IL 107678	A1	19990312	IL 1993-107678	19931119
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
HU 65622	A2	19940728	HU 1993-3328	19931124
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
FI 9305431	A	19940611	FI 1993-5431	19931203
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
AT 143956	E	19961015	AT 1993-309680	19931203
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
ES 2093367	T3	19961216	ES 1993-309680	19931203
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
CZ 283612	B6	19980513	CZ 1993-2651	19931206
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
NO 9304504	A	19940613	NO 1993-4504	19931209
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
JP 06336481	A2	19941206	JP 1993-309184	19931209
JP 3330706	B2	20020930		
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
CN 1094043	A	19941026	CN 1993-120872	19931210
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518
US 5580870	A	19961203	US 1993-164725	19931210
			GB 1992-25765	A 19921210
			GB 1993-10248	A 19930518

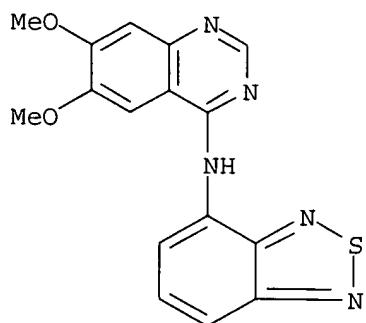
OS MARPAT 122:31545

IT 159737-64-1P 159768-30-6P 159768-47-5P

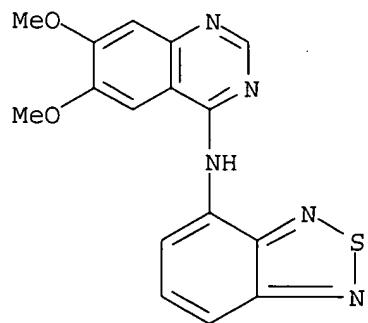
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as anticancer agent)

RN 159737-64-1 CAPLUS

CN 4-Quinazolinamine, N-2,1,3-benzothiadiazol-4-yl-6,7-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)



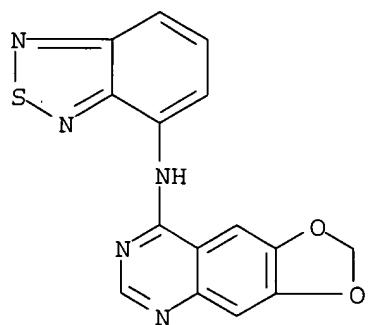
HCl



● HCl

RN 159768-30-6 CAPLUS

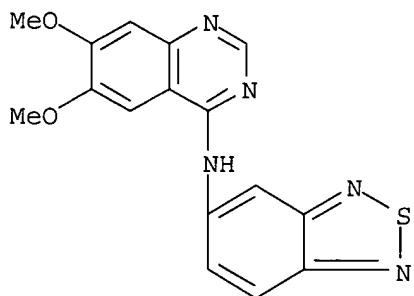
CN 1,3-Dioxolo[4,5-g]quinazolin-8-amine, N-2,1,3-benzothiadiazol-4-yl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

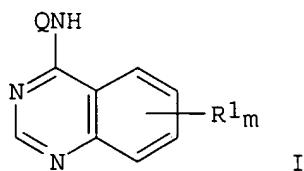
RN 159768-47-5 CAPLUS

CN 4-Quinazolinamine, N-2,1,3-benzothiadiazol-5-yl-6,7-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)



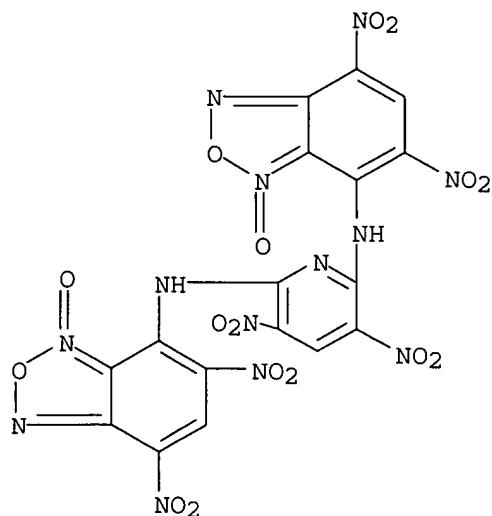
● HCl

GI



AB The title compds. [I; Q = 9- or 10-membered bicyclic heterocyclic moiety contg. 1-2 N atoms; R1 = OH, NH2, ureido, hydroxyamino, trifluoromethoxy, (un)substituted C1-4 alkyl, C1-4 alkoxy, pyrrolidin-1-yl, piperidino, etc.; m = 1-3], useful in the treatment of cancer (no data), are prep'd. and I-contg. formulations presented. Thus, 4-chloro-6,7-dimethoxyquinazoline was reacted with 5-aminoquinoline, producing 6,7-dimethoxy-4-(5-quinolylamino)quinazoline, m.p. > 240.degree., in 35% yield.

L4 ANSWER 30 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:655727 CAPLUS
 DN 121:255727
 TI Synthesis of N,N'-bis(2,4-dinitrobenzofuroxan)-3,5-dinitro-2,6-diaminopyridine
 AU Wang, Naixing; Chen, Boren; Ou, Yuxiang
 CS Beijing Institute Technology, College Chemical Engineering and Material Science, Beijing, 100081, Peop. Rep. China
 SO Journal of Beijing Institute of Technology (English Edition) (1993), 2(1), 15-18
 CODEN: JBITE5; ISSN: 1004-0579
 DT Journal
 LA English
 IT 157143-51-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of bis(dinitrobenzofuroxanyl)dinitrodiaminopyridine)
 RN 157143-51-6 CAPLUS
 CN 2,6-Pyridinediamine, N,N'-bis(5,7-dinitro-3-oxido-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro- (9CI) (CA INDEX NAME)



AB The title compd. has been synthesized from 2,6-diaminopyridine and trinitrodichlorobenzene.

L4 ANSWER 31 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1994:605372 CAPLUS

DN 121:205372

TI Preparation of aminopyrimidines as aromatase inhibitors

IN Okada, Minoru; Yoden, Toru; Kawaminami, Eiji; Shimada, Yoshiaki; Kudo, Masafumi; Isomura, Yasuo

PA Yamanouchi Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 84 pp.

CODEN: PIXXD2

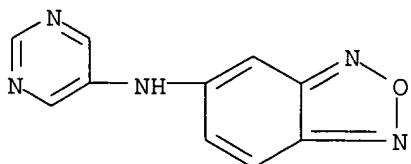
DT Patent

LA Japanese

FAN.CNT 1

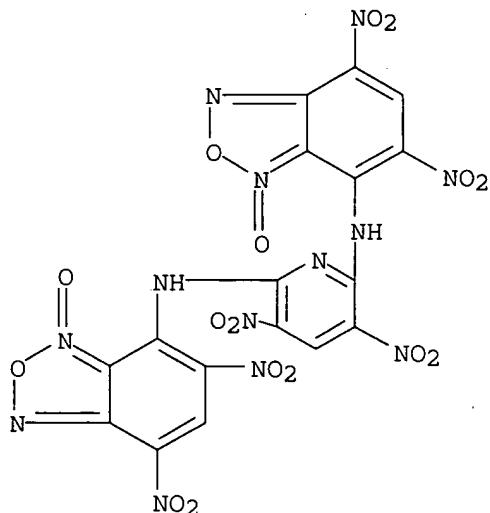
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9322290	A1	19931111	WO 1993-JP548	19930427
	W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SK, UA, US, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			JP 1992-137762	19920428
				JP 1992-234298	19920810
AU	9340230	A1	19931129	AU 1993-40230	19930427
				JP 1992-137762	19920428
				JP 1992-234298	19920810
				WO 1993-JP548	19930427
EP	640595	A1	19950301	EP 1993-909428	19930427
EP	640595	B1	19990324		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE			JP 1992-137762	19920428
				JP 1992-234298	19920810
				WO 1993-JP548	19930427
AT	178056	E	19990415	AT 1993-909428	19930427
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ES 2130258	T3	19990701	ES 1993-909428	19930427
			JP 1992-137762	19920428
			JP 1992-234298	19920810
CN 1079962	A	19931229	CN 1993-105330	19930428
CN 1039228	B	19980722		
			JP 1992-137762	19920428
			JP 1992-234298	19920810
US 5538976	A	19960723	US 1994-325383	19941026
			JP 1992-137762	19920428
			JP 1992-234298	19920810
			WO 1993-JP548	19930427
OS MARPAT 121:205372				
IT 157911-63-2P				
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and reaction of, in prepn. of drug)				
RN 157911-63-2 CAPLUS				
CN 2,1,3-Benzoxadiazol-5-amine, N-5-pyrimidinyl- (9CI) (CA INDEX NAME)				



GI For diagram(s), see printed CA Issue.
 AB The title compds. I [A = single bond, alkylene, etc.; ring B = pyrimidine, pyridazine, triazine ring; rings D and E = (substituted) aryl, etc.; a proviso is given] were prep'd. I have aromatase inhibiting activity and are useful as therapeutic agents for breast cancer, endometriosis, prostatic hypertrophy, etc. Treatment of aminopyrimidine II with NaH in DMF, followed by reaction with 4-trifluoromethylbenzyl bromide, gave, after workup, title compd. III. One compd. I in vitro exhibited IC50 of 0.036 nM against aromatase. Formulations contg. I are given.

L4 ANSWER 32 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:512781 CAPLUS
 DN 121:112781
 TI Synthesis of N,N'-bis(2,4-dinitrobenzofuroxano)-3,5-dinitro-2,6-diaminopyridine
 AU Wang, Naixing; Chen, Boren; Ou, Yuxiang
 CS Coll. Chem. Eng. Mater. Sci., Beijing Inst. Technol., Beijing, 100081, Peop. Rep. China
 SO Beijing Ligong Daxue Xuebao (1993), 13(4), 475-9
 CODEN: BLXUEV; ISSN: 1001-0645
 DT Journal
 LA Chinese
 IT **157143-51-6P**
 RL: PREP (Preparation)
 (explosive, synthesis and properties of)
 RN 157143-51-6 CAPLUS
 CN 2,6-Pyridinediamine, N,N'-bis(5,7-dinitro-3-oxido-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro- (9CI) (CA INDEX NAME)



AB Because of its low d., the nitro groups in 2,6-bis(picrylamino)-3,5-dinitro pyridine was replaced by benzofuroxano groups to increase its d. and detonation velocity. The introduction of aminoheterocycles in explosives can result in increased d. and decreased impact sensitivity.

L4 ANSWER 33 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1994:193200 CAPLUS

DN 120:193200

TI Synthesis and application of UV stabilizers for polymeric materials based on triazinylaminobenzotriazole

AU Konstantinova, T.; Bogdanova, A.; Stanimirov, S.; Konstantinov, Hr.

CS Dep. Org. Synth., Higher Inst. Chem. Technol., Sofia, 1756, Bulg.

SO Polymer Degradation and Stability (1994), 43(2), 187-93

CODEN: PDSTDW; ISSN: 0141-3910

DT Journal

LA English

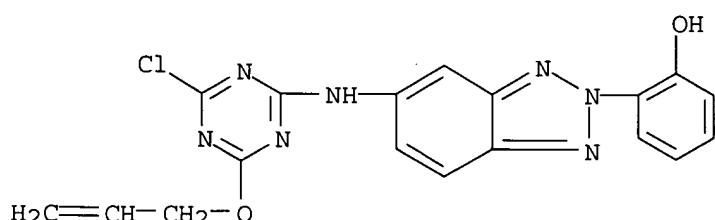
IT 153976-86-4P 153976-87-5P 153976-88-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(UV stabilizers, prepn. and characterization and polymn. of, with styrene)

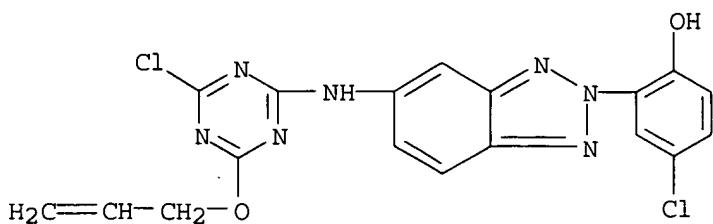
RN 153976-86-4 CAPLUS

CN Phenol, 2-[5-[(4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



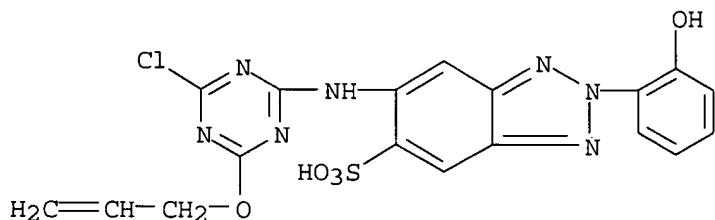
RN 153976-87-5 CAPLUS

CN Phenol, 4-chloro-2-[5-[(4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl)amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



RN 153976-88-6 CAPLUS

CN 2H-Benzotriazole-5-sulfonic acid, 6-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



IT 153976-90-0P 153976-91-1P 153976-92-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and photostability of)

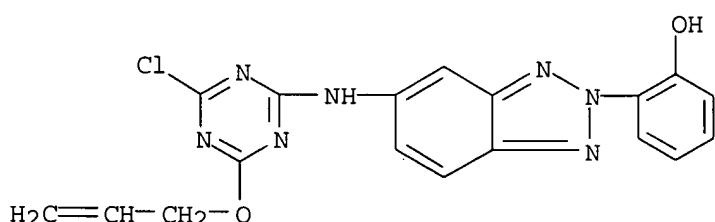
RN 153976-90-0 CAPLUS

CN Phenol, 2-[5-[(4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl)amino]-2H-benzotriazol-2-yl]-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 153976-86-4

CMF C18 H14 Cl N7 O2



CM 2

CRN 100-42-5

CMF C8 H8

H₂C=CH-Ph

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

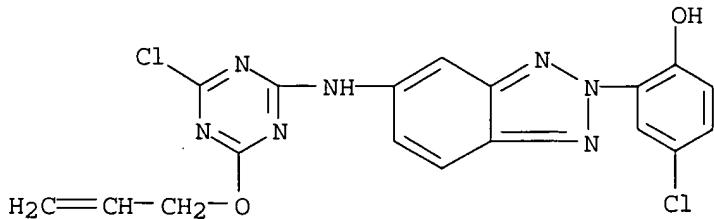
RN 153976-91-1 CAPLUS

CN Phenol, 4-chloro-2-[5-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 153976-87-5

CMF C18 H13 Cl2 N7 O2



CM 2

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

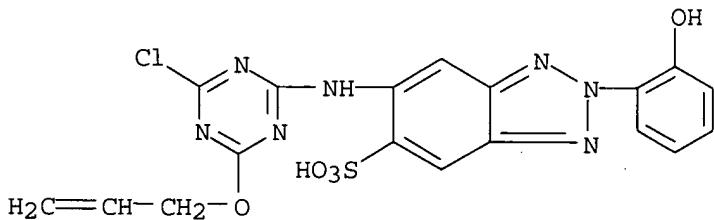
RN 153976-92-2 CAPLUS

CN 2H-Benzotriazole-5-sulfonic acid, 6-[[4-chloro-6-(2-propenyloxy)-1,3,5-triazin-2-yl]amino]-2-(2-hydroxyphenyl)-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

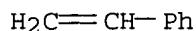
CRN 153976-88-6

CMF C18 H14 Cl N7 O5 S



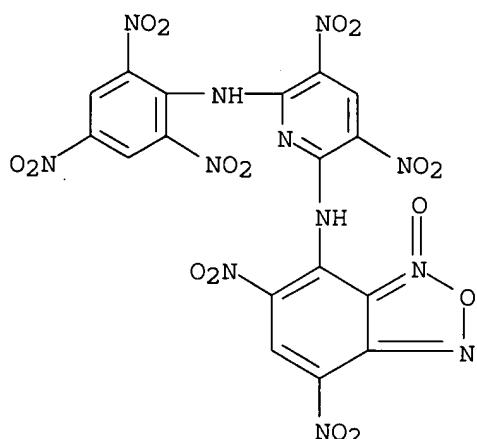
CM 2

CRN 100-42-5
 CMF C8 H8



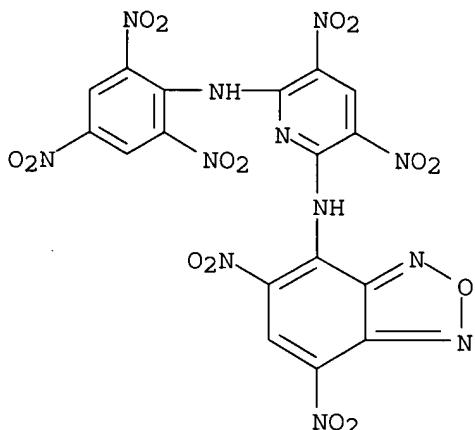
AB Four new compds., derivs. of triazinylaminobenzotriazole, contg. a polymerizable allyloxy group have been synthesized. The compds. were characterized by elemental anal., TLC, IR, UV/VIA, and 1H NMR spectra. Polystyrene has been prep'd. in the presence of the compds. Chem. bonding of the UV stabilizer in the polymer was confirmed spectrophotometrically. The spectral (absorption and fluorescence) characteristics of the compds have been investigated, showing that 45-85% of the compds. are bound. Max. stabilizing effect is achieved at 1 wt. % initial concn. of the stabilizer. A structure-photostability relationship has been sought.

L4 ANSWER 34 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:674585 CAPLUS
 DN 119:274585
 TI Study on field desorption mass spectra and desorption electron impact mass spectra of four new-type gunpowders
 AU Fu, Hua; Wang, Jingzun; Wu, Yi
 CS Microchem. Inst. Beijing, Beijing, 100091, Peop. Rep. China
 SO Fenxi Huaxue (1993), 21(9), 1068-70
 CODEN: FHHHDT; ISSN: 0253-3820
 DT Journal
 LA Chinese
 IT 141479-55-2
 RL: USES (Uses)
 (gunpowder, anal. of, by field desorption and desorption electron impact mass spectrometry)
 RN 141479-55-2 CAPLUS
 CN 2,6-Pyridinediamine, N-(5,7-dinitro-3-oxido-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro-N'-(2,4,6-trinitrophenyl)- (9CI) (CA INDEX NAME)



AB Field-desorption and desorption-electron-impact mass spectra of four new gunpowders are given. The two methods give intense mol. ion peaks and characteristic fragment ion peaks. One sample (C17H6N12O16) is also studied by using DEIMS metastable ion technique.

L4 ANSWER 35 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:563575 CAPLUS
 DN 119:163575
 TI Synthesis of 2-(picrylamino)-6-(2,4-dinitrobenzofurazanyl amino)-3,5-dinitropyridine
 AU Wang, Naixing; Chen, Boren; Ou, Yuxiang
 CS Dep. Chem. Eng., Beijing Inst. Technol., Beijing, 100081, Peop. Rep. China
 SO Yingyong Huaxue (1993), 10(3), 94-6
 CODEN: YIHUED; ISSN: 1000-0518
 DT Journal
 LA Chinese
 IT 150302-12-8P
 RL: PREP (Preparation)
 (explosive, synthesis and properties of)
 RN 150302-12-8 CAPLUS
 CN 2,6-Pyridinediamine, N-(5,7-dinitro-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro-N'-(2,4,6-trinitrophenyl)- (9CI) (CA INDEX NAME)



AB The title explosive, which was synthesized in high yield, is an orange yellow solid with d. 1.84 g/cm³, decompn. temp. 310.degree. (measured by differential thermal anal.), detonation velocity 807.6 cm/s, and no observable wt. loss at 100.degree. for 48 h.

L4 ANSWER 36 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:517256 CAPLUS
 DN 119:117256
 TI Preparation of triazolyl-substituted tertiary amines as aromatase inhibitors
 IN Okada, Minoru; Kawaminami, Eiji; Yoden, Toru; Kudo, Masafumi; Isomura, Yasuo
 PA Yamanouchi Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT. 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9305027	A1	19930318	WO 1992-JP1089	19920827

W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KR, LK, MG, MN, MW, NO, PL,
RO, RU, SD, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF,
BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG

JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

AU 9224874 A1 19930405 AU 1992-24874 19920827
AU 665569 B2 19960111

JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

WO 1992-JP1089 A 19920827

EP 641785 A1 19950308 EP 1992-918529 19920827
EP 641785 B1 19991027

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE

JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

WO 1992-JP1089 W 19920827

HU 67249 A2 19950328 HU 1994-611 19920827
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

JP 2500849 B2 19960529 JP 1992-505096 19920827
JP 1991-248268 A 119910902

JP 1991-344011 A 119911202

RU 2124010 C1 19981227 RU 1994-16190 19920827
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

RO 114129 B3 19990129 RO 1994-319 19920827
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

WO 1992-JP1089 W 19920827
AT 186052 E 19991115 AT 1992-918529 19920827

JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

ES 2139605 T3 20000216 ES 1992-918529 19920827
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

CA 2116773 C 20021210 CA 1992-2116773 19920827
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

WO 1992-JP1089 W 19920827

CN 1069974 A 19930317 CN 1992-110016 19920902
CN 1035817 B 19970910

JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

US 5674886 A 19971007 US 1994-199180 19940224
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

WO 1992-JP1089 W 19920827

NO 9400686 A 19940429 NO 1994-686 19940228
JP 1991-248268 A 19910902

JP 1991-344011 A 19911202

WO 1992-JP1089 A 19920827

FI 9400988 A 19940405 FI 1994-988 19940302
JP 1991-248268 A 19910902

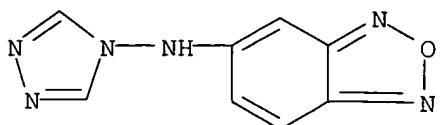
JP 1991-344011 A 19911202

WO 1992-JP1089 W 19920827

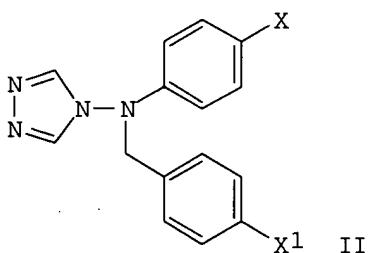
OS MARPAT 119:117256

IT 148869-75-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as intermediate for aryltriazolylamine aromatase inhibitor)
 RN 148869-75-4 CAPLUS
 CN 2,1,3-Benzoxadiazol-5-amine, N-4H-1,2,4-triazol-4-yl- (9CI) (CA INDEX
 NAME)



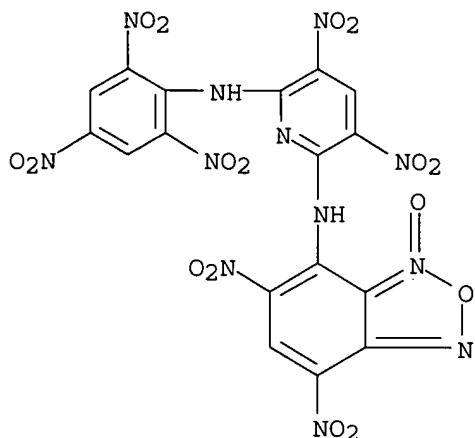
GI



AB RR1NAB [I; A = single bond, lower alkylene, CO; B = lower alkyl, (un)substituted aryl, (un)substituted 5- or 6-membered ring (benzo-fused) heterocyclyl having 1-3 heteroatoms consisting of O, S, or N; R = (un)substituted aryl, (un)substituted 5- or 6-membered ring (benzo-fused) heterocyclyl having 1-3 heteroatoms consisting of O, S, or N; R1 = 4H-1,2,4-, 1H-1,2,4-, or 1H-1,2,3-triazolyl], useful for the treatment of estrogen-related diseases such as breast cancer, mastopathy, endometriosis, prostatomegaly, myoma of the uterus, and cancer of uterus body, are prep'd. Thus, MeCN, 4-[N-(4-nitrophenyl)amino]-4H-1,2,4-triazole, 4-bromobenzyl bromide, and K2CO3 were stirred at room temp. for 3 h to give II (X = NO2, X1 = Br) which in vitro showed IC50 of 0.03 nM against aromatase in human placenta-derived microsome. A tablet formulation contg. II (X = cyano, X1 = Br) was given. A total of 75 I were prep'd.

L4 ANSWER 37 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:8954 CAPLUS
 DN 118:8954
 TI Synthesis of N-2,4,6-trinitrophenyl-N'-2,4-dinitrobenzofuroxano-3,5-dinitro-2,6-diaminopyridine
 AU Wang, Naixing; Chen, Boren; Ou, Yuxiang
 CS Dep. Chem. Eng., Beijing Inst. Technol., Beijing, 10081, Peop. Rep. China
 SO Propellants, Explosives, Pyrotechnics (1992), 17(5), 265-6
 CODEN: PEPYD5; ISSN: 0721-3115
 DT Journal
 LA English
 IT 141479-55-2P
 RL: PREP (Preparation)
 (prepn. and structure detn. and detonation properties of)

RN 141479-55-2 CAPLUS
 CN 2,6-Pyridinediamine, N-(5,7-dinitro-3-oxido-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro-N'-(2,4,6-trinitrophenyl)- (9CI) (CA INDEX NAME)



AB N-2,4,6-Trinitrophenyl-N'-2,4-dinitrobenzofuroxano-3,5-dinitro-2,6-diaminopyridine (I) was synthesized from 2,6-diaminopyridine and dinitrodichlorobenzene as well as 2,4,6-trinitrochlorobenzene. The structure was verified by elemental anal., IR, NMR, and mass spectroscopies. I had a detonation velocity of 8179.5 m/s and no wt. loss at 100. degree. for 48 h.

L4 ANSWER 38 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1992:448554 CAPLUS
 DN 117:48554
 TI Preparation of 1-(4-biphenylyl)benzimidazoles as angiotensin II antagonists
 IN Narr, Berthold; Hauel, Norbert; Van Meel, Jacques; Wienen, Wolfgang; Entzeroth, Michael; Ries, Uwe
 PA Thomae, Dr. Karl, G.m.b.H., Germany
 SO Eur. Pat. Appl., 72 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 468470	A1	19920129	EP 1991-112404	19910722
	EP 468470	B1	19970416		
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				DE 1990-4031287A	19901004
				DE 1991-4105324A	19910220
	DE 4023369	A1	19920130	DE 1990-4023369	19900723
	DE 4031287	A1	19920409	DE 1990-4031287	19901004
	DE 4105324	A1	19920827	DE 1991-4105324	19910220
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				DE 1990-4023369A	19900723
				DE 1990-4031287A	19901004
				DE 1991-4105324A	19910220
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CA 2047496	C	20011023	DE 1990-4023369A 19900723 DE 1990-4031287A 19901004 DE 1991-4105324A 19910220
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NO 9102859	A	19920124	NO 1991-2859 19910722
NO 178927	B	19960325	
NO 178927	C	19960703	DE 1990-4023369A 19900723 DE 1990-4031287A 19901004 DE 1991-4105324A 19910220
HU 58298	A2	19920228	HU 1991-2456 19910722 DE 1990-4023369A 19900723 DE 1990-4031287A 19901004 DE 1991-4105324A 19910220
JP 04253966	A2	19920909	JP 1991-181033 19910722
JP 2539113	B2	19961002	DE 1990-4023369A 19900723 DE 1990-4031287A 19901004 DE 1991-4105324A 19910220
ZA 9105717	A	19930331	ZA 1991-5717 19910722
AT 151766	E	19970515	DE 1990-4023369A 19900723 AT 1991-112404 19910722 DE 1990-4023369A 19900723 DE 1990-4031287A 19901004
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US 1994-220472 A319940330
 US 1994-299693 A319940901

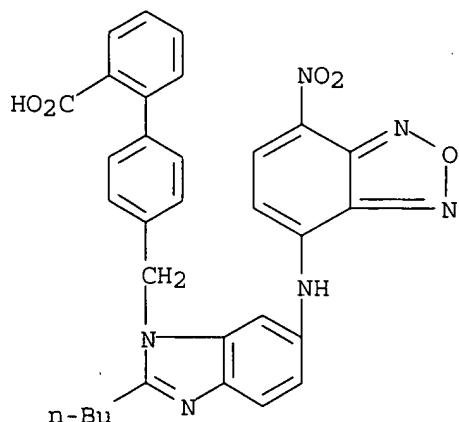
OS MARPAT 117:48554

IT **141838-16-6P**

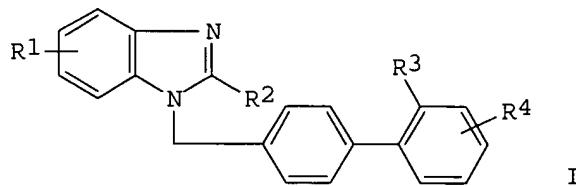
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as angiotensin II antagonist)

RN 141838-16-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxylic acid, 4'-[[2-butyl-6-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-1H-benzimidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



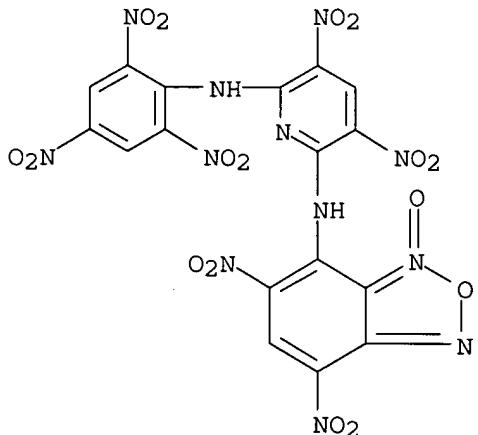
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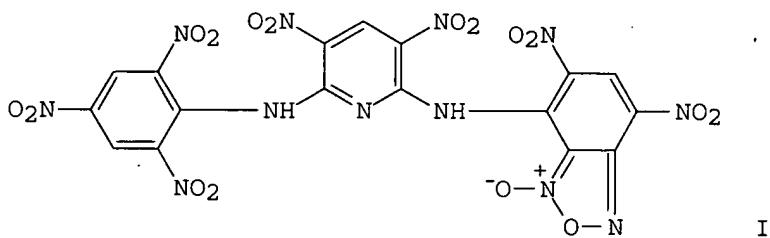
AB Title compds. [I; R1 = tetrahydrobenzimidazolyl, imidazopyridyl, (substituted) benzimidazolyl, benzoxazolyl, etc.; R2 = H, (S-interrupted) alkyl; R3 = carboxy, cyano, tetrazolyl, 1-triphenylmethyltetrazolyl, alkoxy carbonyl; R4 = H, F, Cl, Br], and their isomeric mixts. and salts, were prep'd. Thus, 2-propyl-5-(1-methylbenzimidazol-2-yl)benzimidazole (prepn. from Me 3,4-diaminobenzoate.2HCl given) and tert-Bu 4'-bromomethylbiphenyl-2-carboxylate were stirred 15 h with KOCMe3 in Me2SO to give 70% coupling products, which were treated with CF3CO2H in CH2Cl2 to give a mixt. of 4'-[[2-propyl-5-(1-methylbenzimidazol-2-yl)benzimidazol-1-yl]methyl]biphenyl-2-carboxylic acid and 4'-[[2-propyl-6-(1-methylbenzimidazol-2-yl)benzimidazol-1-yl]methyl]biphenyl-2-carboxylic acid. I antagonized angiotensin II in rats with pA2 values of 6.0-7.5. I, at up to 30 mg/kg i.v., were without

toxic side effects, e.g., neg. inotropic activity.

L4 ANSWER 39 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1992:235527 CAPLUS
 DN 116:235527
 TI Synthesis of N-2,4,6-trinitrophenyl-N'-2,4-dinitrobenzofuroxan-3,5-dinitro-2,6-diaminopyridine
 AU Wang, Naixing; Chen, Boren; Ou, Yuxiang
 CS Dep. Chem. Eng., Beijing Inst. Technol., Beijing, Peop. Rep. China
 SO Kogyo Kayaku (1992), 53(1), 22-4
 CODEN: KOKYBR; ISSN: 0368-6450
 DT Journal
 LA English
 IT 141479-55-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as explosive)
 RN 141479-55-2 CAPLUS
 CN 2,6-Pyridinediamine, N-(5,7-dinitro-3-oxido-2,1,3-benzoxadiazol-4-yl)-3,5-dinitro-N'-(2,4,6-trinitrophenyl)- (9CI) (CA INDEX NAME)



GI



AB The title compd. (I), useful as explosive, was prep'd. from 2,6-diaminopyridine, dinitrodichlorobenzene, and 2,4,6-trinitrochlorobenzene and its structure was detd. by elemental anal., IR, ¹H-NMR, and MS spectroscopies.

L4 ANSWER 40 OF 41 CAPLUS COPYRIGHT 2003 ACS
 AN 1992:153772 CAPLUS

DN 116:153772

TI Fiber-reactive hydroxy benzotriazole compounds and perspiration- and lightfast fiber dyeings incorporating them

IN Yokogawa, Kazufumi; Kashiwane, Yutaka; Ota, Miwako; Harada, Naoki

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03241069	A2	19911028	JP 1990-35745	19900215
	JP 2946602	B2	19990906		
	JP 09188667	A2	19970722	JP 1997-2771	19900215
				JP 1990-35745	19900215

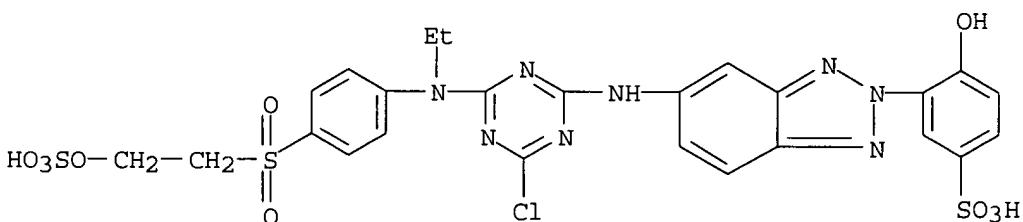
OS MARPAT 116:153772

IT 139723-52-7P 139723-56-1P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of, as fiber-reactive UV absorber for cotton dyed with reactive dyes)

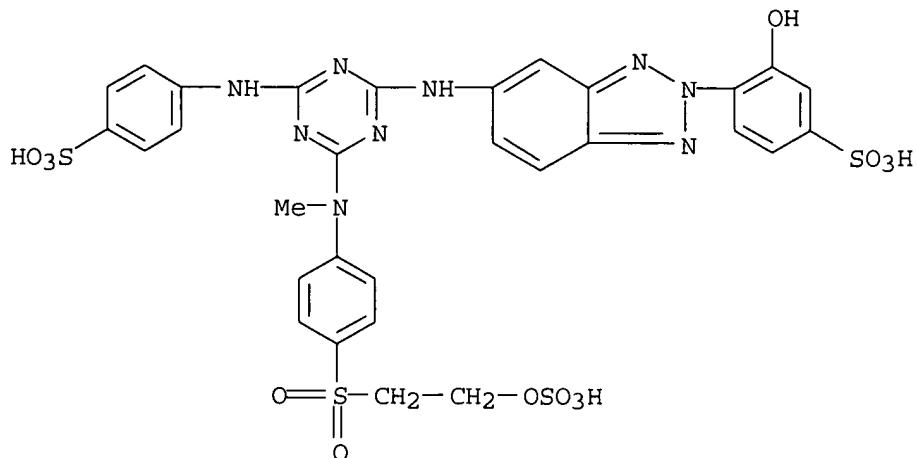
RN 139723-52-7 CAPLUS

CN Benzenesulfonic acid, 3-[5-[[4-chloro-6-[ethyl[4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]-4-hydroxy- (9CI) (CA INDEX NAME)

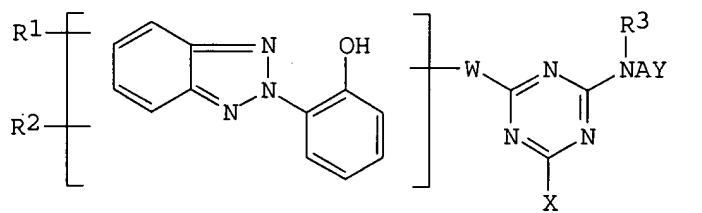


RN 139723-56-1 CAPLUS

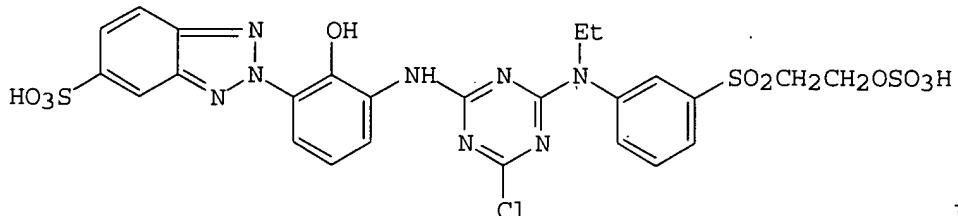
CN Benzenesulfonic acid, 3-hydroxy-4-[5-[[4-[methyl[4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-2H-benzotriazol-2-yl]- (9CI) (CA INDEX NAME)



GI



I



II

AB The benzotriazoles, esp. useful for enhancing the lightfastness of cotton dyed with fiber-reactive dyes, have the free-acid form I [A = (un)substituted phenylene, naphthylene, or alkylene; R1, R2 = H, alkyl, alkoxy, NO₂, OH, CO₂H, SO₃H, Cl, Br; R3 = H, (un)substituted alkyl; W = NR₄, O, (CH₂)_nNH; R₄ = H, Me, Et; X = Cl, F, (un)substituted pyridinio, NR₅R₆, OR₇; R₅-R₇ = H, (un)substituted alkyl, Ph, naphthyl, or benzyl; Y = SO₂CH₂:CH₂, SO₂CH₂CH₂Z; Z = alkali-removable group; n = 1-4]. Cyanuric chloride was condensed with m-EtNHC₆H₄SO₂CH₂CH₂OSO₃H, then with 2-(4-amino-2-hydroxyphenyl)benzotriazole-6-sulfonic acid to give II, λ_{max} 355 nm.

L4 ANSWER 41 OF 41 CAPLUS COPYRIGHT 2003 ACS

AN 1992:108247 CAPLUS

DN 116:108247

TI Reactive dye mixtures and dyeing and printing cellulosic fibers therewith
IN Harada, Naoki; Yokogawa, Kazufumi; Yoshikawa, Sadanobu; Ota, Miwako;

10077150.9

Page 116

Patel

<5/19/2003>

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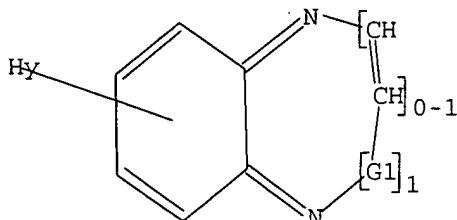
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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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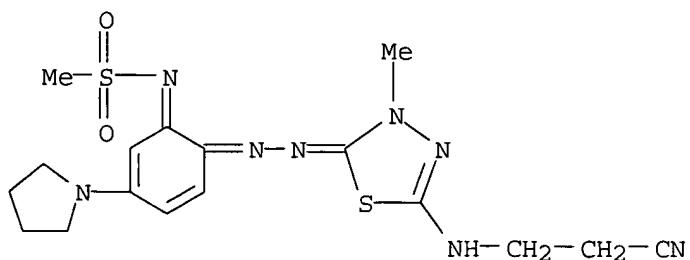
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 L4 2 L3

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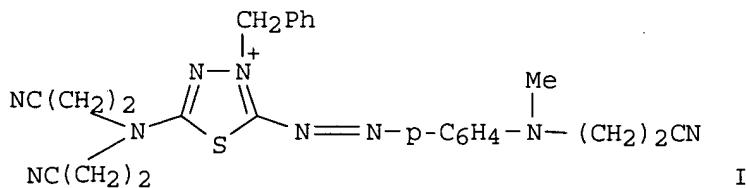
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:168480 CAPLUS
 DN 126:173015
 TI Reduction of the toxicity of spent dye baths in cationic dyeing and manufacture of cationic dyes
 IN Giera, Henry; Reichel, Felix; Berneth, Horst; Boecker, Thomas; Hassenrueck, Karin; Lange, Karl; Meisel, Karlheinrich
 PA Bayer A.-G., Germany
 SO Eur. Pat. Appl., 63 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 752494 R: CH, DE, FR, GB, LI	A1	19970108	EP 1996-109918	19960620
	DE 19524134	A1	19970109	DE 1995-19524134	19950703
	US 5725607	A	19980310	US 1996-670045	19960625
	JP 09012914	A2	19970114	DE 1995-19524134	19950703
	US 5869731	A	19990209	JP 1996-188091	19960628
				DE 1995-19524134	19950703
				US 1997-937289	19970925
				DE 1995-19524134	19950703
				US 1996-670045	19960625

OS MARPAT 126:173015
 IT 186958-79-2P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dye; manuf. of cationic dyes with reduced toxicity in spent dye baths)
 RN 186958-79-2 CAPLUS
 CN Methanesulfonamide, N-[6-[[5-[(2-cyanoethyl)amino]-3-methyl-1,3,4-thiadiazol-2(3H)-ylidene]hydrazone]-3-(1-pyrrolidinyl)-2,4-cyclohexadien-1-ylidene]- (9CI) (CA INDEX NAME)



GI



I

AB The toxicity of spent dye baths is reduced in dyeing with cationic dyes by using cationic dyes having idealized hydration energy ≥ 50 kcal/mol. Based on a logarithmic correlation between the idealized hydration energy of the cationic dye and its toxicity to fish, daphne, and algae, lower toxicity dyes can be manufd. Thus, I, having COSMO idealized hydration energy 60.9 kcal/mol exhibited toxicity to daphne and algae 72 ECD50 and 19 ECD50, resp. Polyacrylonitrile fibers were dyed in a dyebath contg. I (pH 4.5-5) and exhibited an intensive neutral blue with good color fastness.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

AN 1989:567389 CAPLUS

DN 111:167389

TI Novel 3',4'-dinitrogen-substituted epipodophyllotoxin glucoside derivatives, their preparation, and use as antitumor agents

IN Vyas, Dolatrai Mohanla; Saulnier, Mark George; Kadow, John F.

PA Bristol-Myers Co., USA

SO Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 297594	A2	19890104	EP 1988-110502	19880630
	EP 297594	A3	19900725		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE			US 1987-68376	19870701
	US 4874851	A	19891017	US 1987-68376	19870701
	ZA 8803762	A	19890329	ZA 1988-3762	19880526
				US 1987-68376	19870701
	FI 8803088	A	19890102	FI 1988-3088	19880628
	FI 87357	B	19920915		
	FI 87357	C	19921228		

NO 8802849	A	19890102	US 1987-68376	19870701
NO 167807	B	19910902	NO 1988-2849	19880628
NO 167807	C	19911211		
AU 8818446	A1	19890119	US 1987-68376	19870701
AU 618536	B2	19920102	AU 1988-18446	19880628
DK 8803608	A	19890102	US 1987-68376	19870701
JP 01026592	A2	19890127	DK 1988-3608	19880630
JP 01026592			US 1987-68376	19870701
CA 1306250	A1	19920811	JP 1988-164102	19880630
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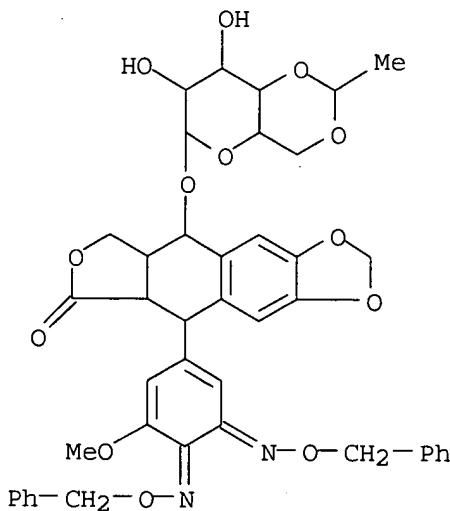
OS MARPAT 111:167389

IT 123071-54-5P 123071-55-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and antitumor activity of)

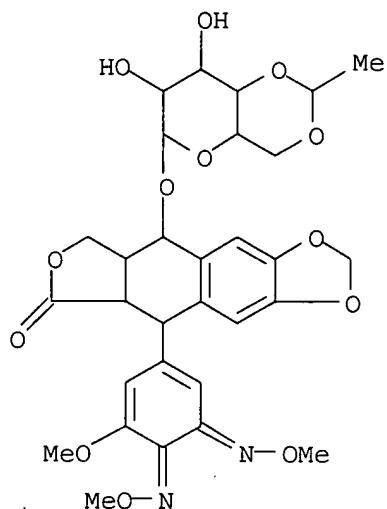
RN 123071-54-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 5-[9-[(4,6-O-ethylidene-.beta.-D-glucopyranosyl)oxy]-5,5a,6,8,8a,9-hexahydro-6-oxofuro[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-5-yl]-3-methoxy-, 1,2-bis[O-(phenylmethyl)oxime], [5R-[5.alpha.,5a.beta.,8a.alpha.,9.beta.-(R*)]]- (9CI) (CA INDEX NAME)

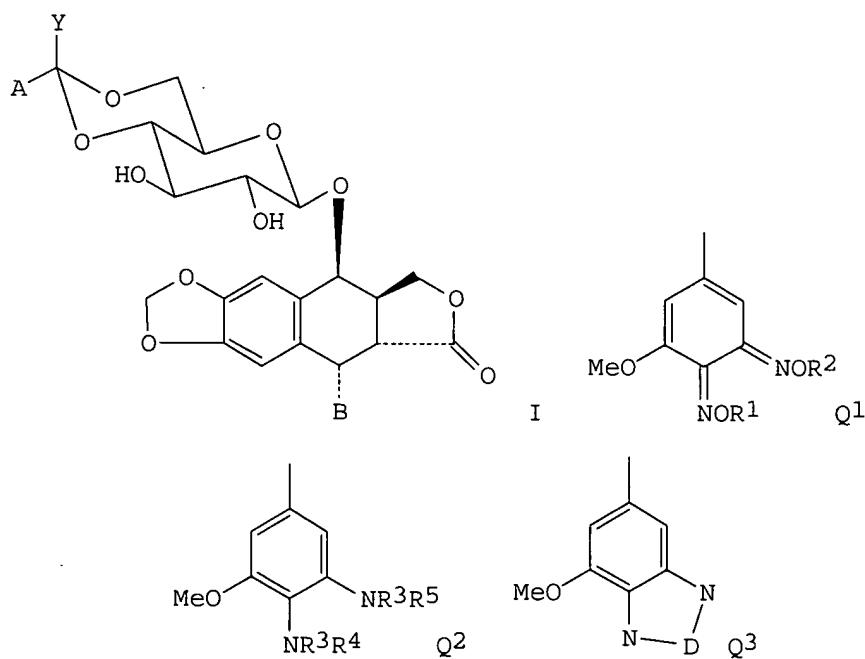


RN 123071-55-6 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 5-[9-[(4,6-O-ethylidene-.beta.-D-glucopyranosyl)oxy]-5,5a,6,8,8a,9-hexahydro-6-oxofuro[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-5-yl]-3-methoxy-, 1,2-bis(O-methyloxime), [5R-[5.alpha.,5a.beta.,8a.alpha.,9.beta.-(R*)]]- (9CI) (CA INDEX NAME)



GI



AB The title derivs. I [Y = H, C1-8 alkyl; A = C1-10 alkyl, C2-10 alkenyl, C5-6 cycloalkyl, 2-furyl, 2-thienyl, etc.; A and Y form C5-6 cycloalkyl; B = Q1(R1,R2 = C1-5 alkyl, aryl, aryl-C1-5 alkyl), Q2(R3 = H; R4,R5 = H, C1-5 alkanoyl, halo-C2-5 alkanoyl or R3 = bond; R4,R5 = CHR6; R6 = aryl, substituted aryl), Q3(D = -N:; -C(R7):; :C(R7)C(R8):; -P(OR9)(:X)-; R7, R8 = H, C1-5 alkyl; R9 = C1-5 alkyl, substituted C1-5 alkyl; X = O, S)] are prepd. as antitumor agents. I(Y = H; A = Me; B = Q2; R3,R4,R5 = H) (II)

was prep'd. by reaction of etoposide 3',4'-quinone with O-benzylhydroxylamine HCl and treatment of the product with 20% Pd hydroxide on C and hydrogenation. II at >100 mg/kg/injection showed a max. % T/C of 216 against P388 leukemia in CDF1 mice (administered i.p. on days 5 & 8 after tumor implantation).